


Prüfbericht-Nr.: <i>Test Report No.:</i>	50185159 001	Auftrags-Nr.: <i>Order No.:</i>	164134888	<i>Seite 1 von 19</i> <i>Page 1 of 19</i>	
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	632179	Auftragsdatum: <i>Order date:</i>	17.07.2018		
Auftraggeber: <i>Client:</i>	EAST Group Co., Ltd.				
Prüfgegenstand: <i>Test item:</i>	Grid-tied PV Inverter				
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	EA2KSI, EA2.5KSI, EA3KSI, EA3KSI-D, EA3.68KSI, EA4KSI, EA4.6KSI, EA5KSI, EA6KSI				
Auftrags-Inhalt: <i>Order content:</i>	TÜV Rheinland AK Approval				
Prüfgrundlage: <i>Test specification:</i>	VDE-AR-N 4105:2011, DIN VDE V 0124-100: 2013				
Wareneingangsdatum: <i>Date of receipt:</i>	17.07.2018				
Prüfmuster-Nr.: <i>Test sample No.:</i>	201808150001				
Prüfzeitraum: <i>Testing period:</i>	17.07.2018 – 23.08.2018				
Ort der Prüfung: <i>Place of testing:</i>	See report page 4				
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.				
Prüfergebnis*: <i>Test result*:</i>	Pass				
geprüft von / tested by:	<i>10.10.2018</i> Corney Zhang / PE				
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>
			<i>10.10.2018</i>	Dean Cao / Reviewer	
Sonstiges / Other: - See the following pages for General product information and comment.					
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>			Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet					
Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested					
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>					

v04

<p>TEST REPORT VDE-AR-N 4105:2011 Power generation systems connected to the low-voltage distribution network - Technical minimum requirements for the connection to and parallel operation with low-voltage distribution networks</p>	
Report Reference No.....	50185159 001
Tested by (name + signature)	See cover page
Witnessed by (name + signature) ..	--
Supervised by (name + signature)..	--
Approved by (name + signature)	See cover page
Date of issue.....	See cover page
Testing Laboratory.....	TÜV Rheinland (Shenzhen) Co., Ltd.
Address	1F East & 2-4F, Cybio Technology Building No.1, No.16 Kejibei 2nd Road, High-Tech Industrial Park North Nanshan District, 518057, Shenzhen, China
Testing location/ procedure	CBTL <input type="checkbox"/> TMP <input type="checkbox"/> WMT <input checked="" type="checkbox"/> SMT <input type="checkbox"/> RMT <input type="checkbox"/> CCATL <input type="checkbox"/>
Testing location/ address.....	See cover page
Applicant's name	EAST Group Co., Ltd.
Address	No.6 Northern Industry Road, Songshan Lake Sci.& Tech. industrial zone, Dongguan City, Guangdong province, China
Test specification:	
Standard	VDE-AR-N 4105:2011, DIN VDE V 0124-100: 2013
Test procedure	CB /CCA-scheme
Non-standard test method.....:	N/A
Test Report Form No.....	VDE-AR-N 4105_A
Test Report Form(s) Originator	TÜV Rheinland Group
Master TRF.....	2012-01
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Test item description	Grid-tied PV Inverter
Trade Mark	
Manufacturer	Same as applicant.
Model/Type reference.....	See model list and marking label on following pages.
Ratings	See model list and marking label on following pages.

Testing procedure and testing location:	
<input type="checkbox"/> CB Testing Laboratory:	See cover page
Testing location/ address..... :	See cover page
<input type="checkbox"/> Associated CB Test Laboratory:	
Testing location/ address..... :	
Tested by (name + signature) :	See cover page
Approved by (+ signature) :	See cover page
<input type="checkbox"/> Testing procedure: TMP	
Tested by (name + signature) :	
Approved by (+ signature) :	
Testing location/ address..... :	
<input type="checkbox"/> Testing procedure: WMT	
Tested by (name + signature) :	
Witnessed by (+ signature) :	
Approved by (+ signature) :	
Testing location/ address..... :	
<input type="checkbox"/> Testing procedure: SMT	
Tested by (name + signature) :	
Approved by (+ signature) :	
Supervised by (+ signature) :	
Testing location/ address..... :	
<input type="checkbox"/> Testing procedure: RMT	
Tested by (name + signature) :	
Approved by (+ signature) :	
Supervised by (+ signature) :	
Testing location/ address..... :	

List of Attachments (including a total number of pages in each attachment):

- ATTACHMENT 1 – The table of F.3 and F.4. (29 pages)
- ATTACHMENT 2 – Photo Documentation (8 pages)

Summary of testing**Tests performed (name of test and test clause): Testing location:**

Clause	Test description	Testing location:
		See cover page.
5.4.2	Rapid/Fast voltage changes	
5.4.3	Flicker	
5.4.4	Harmonics and inter-harmonics	
5.4.5	Voltage unbalance	
5.7.3.3	Active power feed-in at overfrequency	
5.7.5	Reactive power	
	Reactive & active power range	
	Compliance of fixed Cos φ	
	Standard Cos φ -P line	
6.5.2	Protective functions Under/Over Voltage/Frequency	
6.5.3	Islanding detection	
8.3.1	Connection condition and synchronization	

Remark:

1. Testing standard comply with standard of VDE-AR-N 4105:2011.
2. Testing procedure comply with standard of DIN V VDE V 0124-100:2013.

Copy of marking plate:
EAST
PV Inverter

Model	EA2KSI
Max.Input Voltage	600Vd.c.
MPPT Voltage Range	90~550Vd.c.
Max.Input Current	11A
Isc PV	12A
Rated Output Voltage	230Va.c.
Rated Output Frequency	50/60Hz
Max.Output Current	8.7A
Rated Output Power	2000W
Power Factor Range	0.8 cap.~0.8 ind.
Enclosure	IP65
Overvoltage Category	III(AC), II (DC)
Ambient Temperature	-25°C~60°C



Protection Class I


EAST
PV Inverter

Model	EA2.5KSI
Max.Input Voltage	600Vd.c.
MPPT Voltage Range	90~550Vd.c.
Max.Input Current	11A
Isc PV	12A
Rated Output Voltage	230Va.c.
Rated Output Frequency	50/60Hz
Max.Output Current	10.9A
Rated Output Power	2500W
Power Factor Range	0.8 cap.~0.8 ind.
Enclosure	IP65
Overvoltage Category	III(AC), II (DC)
Ambient Temperature	-25°C~60°C



Protection Class I


EAST
PV Inverter

Model	EA3KSI
Max.Input Voltage	600Vd.c.
MPPT Voltage Range	90~550Vd.c.
Max.Input Current	11A
Isc PV	12A
Rated Output Voltage	230Va.c.
Rated Output Frequency	50/60Hz
Max.Output Current	13.0A
Rated Output Power	3000W
Power Factor Range	0.8 cap.~0.8 ind.
Enclosure	IP65
Overvoltage Category	III(AC), II (DC)
Ambient Temperature	-25°C~60°C



Protection Class I


EAST
PV Inverter

Model	EA3KSI-D
Max.Input Voltage	600Vd.c.
MPPT Voltage Range	90~550Vd.c.
Max.Input Current	11A*2
Isc PV	12A*2
Rated Output Voltage	230Va.c.
Rated Output Frequency	50/60Hz
Max.Output Current	13.0A
Rated Output Power	3000W
Power Factor Range	0.8 cap.~0.8 ind.
Enclosure	IP65
Overvoltage Category	III(AC), II (DC)
Ambient Temperature	-25°C~60°C



Protection Class I



EAST
PV Inverter

Model	EA3.68KSI
Max.Input Voltage	600Vd.c.
MPPT Voltage Range	90~550Vd.c.
Max.Input Current	11A*2
Isc PV	12A*2
Rated Output Voltage	230Va.c.
Rated Output Frequency	50/60Hz
Max.Output Current	16.0A
Rated Output Power	3680W
Power Factor Range	0.8 cap~0.8 ind.
Enclosure	IP65
Overvoltage Category	III(AC), II (DC)
Ambient Temperature	-25°C~60°C



Protection Class I

EA3.68KSI201808150001


EAST
PV Inverter

Model	EA4KSI
Max.Input Voltage	600Vd.c.
MPPT Voltage Range	90~550Vd.c.
Max.Input Current	11A*2
Isc PV	12A*2
Rated Output Voltage	230Va.c.
Rated Output Frequency	50/60Hz
Max.Output Current	17.4A
Rated Output Power	4000W
Power Factor Range	0.8 cap~0.8 ind.
Enclosure	IP65
Overvoltage Category	III(AC), II (DC)
Ambient Temperature	-25°C~60°C



Protection Class I

EA4KSI201808150001


EAST
PV Inverter

Model	EA4.6KSI
Max.Input Voltage	600Vd.c.
MPPT Voltage Range	90~550Vd.c.
Max.Input Current	11A*2
Isc PV	12A*2
Rated Output Voltage	230Va.c.
Rated Output Frequency	50/60Hz
Max.Output Current	20.0A
Rated Output Power	4600W
Power Factor Range	0.8 cap~0.8 ind.
Enclosure	IP65
Overvoltage Category	III(AC), II (DC)
Ambient Temperature	-25°C~60°C



Protection Class I

EA4.6KSI201808150001


EAST
PV Inverter

Model	EA5KSI
Max.Input Voltage	600Vd.c.
MPPT Voltage Range	90~550Vd.c.
Max.Input Current	11A*2
Isc PV	12A*2
Rated Output Voltage	230Va.c.
Rated Output Frequency	50/60Hz
Max.Output Current	21.8A
Rated Output Power	5000W
Power Factor Range	0.8 cap~0.8 ind.
Enclosure	IP65
Overvoltage Category	III(AC), II (DC)
Ambient Temperature	-25°C~60°C



Protection Class I

EA5KSI201808150001



EAST
PV Inverter

Model	EA6KSI
Max.Input Voltage	600Vd.c.
MPPT Voltage Range	90~550Vd.c.
Max.Input Current	11A*2
Isc PV	12A*2
Rated Output Voltage	230Va.c.
Rated Output Frequency	50/60Hz
Max.Output Current	26.1A
Rated Output Power	6000W
Power Factor Range	0.8 cap.~0.8 ind.
Enclosure	IP65
Overvoltage Category	III(AC), II(DC)
Ambient Temperature	-25℃~60℃



Protection Class I

EA6KSI201808150001



When differences exist; they shall be identified in the General product information section.

Name and address of factory (ies)

: EAST Group Co., Ltd.

NO.6 NORTHERN INDUSTRY No.6 Northern Industry
Road, Songshan Lake Sci.& Tech. industrial zone,
Dongguan City, Guangdong province, China

General product information:
Brief description:

The equipment is single phase utility-interactive type PV inverter which will be installed and connected to the grid network after installation.

It contains filters for smoothing the output voltage and for EMC, switching and control circuits. Electronic circuits are mounted on a number of PCBs interconnected by appropriate connectors and wires. Power board including electronics components is mounted on the heat sink to earthing by metal screw and spring washer.

There are included a RS485 and two RJ45 communication ports which are connected to the monitors to monitor the status of the inverter by proprietary software.

The PV input combine with 1 or 2 string MPPT tracer and PV input terminals. AC output direct connected to grid and Protective Earthing are provided by dedicated earthing terminals. Grid is protected combination with a two series of relays as redundant build for ensure the inverter can independent disconnected from grid while a relay was fault.

During fault condition defined in this standard, after the DSP receives the abnormal signal from the relevant protective detection circuit, the relays will operate to disconnect the PV inverter line and neutral from grid automatically.

The master DSP and slaver DSP has capacity independent disconnected from grid, when any grid fault had happened.

The models max. output power exceed 4.6KVA, that it wil must be combiner with 3 phase system with a communication coupler for keep on the system each phase power difference less than 4.6KVA under any operation conditions.

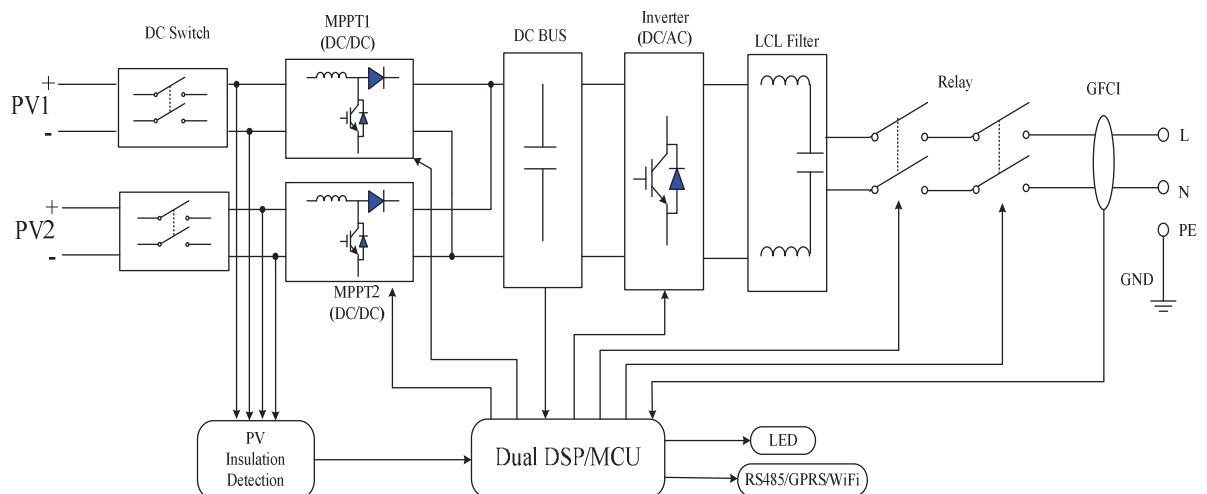
Block Diagram:


Figure 1. Block diagram

Model Difference:

The models EA2KSI, EA2.5KSI, EA3KSI are identical to hardware and software, excepted the output power are different was adjusted by software.

The Models EA3KSI-D, EA3.68KSI, EA4KSI, EA4.6KSI, EA5KSI, EA6KSI are identical to hardware and

software, excepted the output power are different was adjusted by software.

The models EA2KSI, EA2.5KSI, EA3KSI and models EA3KSI-D, EA3.68KSI, EA4KSI, EA4.6KSI, EA5KSI, EA6KSI are same as software and hardware, excepted below components are different:

Model	EA2KSI, EA2.5KSI, EA3KSI	EA3KSI-D, EA3.68KSI, EA4KSI EA4.6KSI, EA5KSI, EA6KSI
Components		
Max. input current	11A	11A×2
Output current sensor	HLSR 20-P/LEM	HLSR 32-P/LEM
MPPT string	1	2
Boost induct	580uH(11A)*1	580uH(11A)*2
BUS capacitor	1200uF(315V)*4	1200uF(315V)*6
IGBT/MOSFET	IKW40N65H5*5, IKW40N120H3*2	IKW40N65H5*6, IKW40N120H3*2
Power board size	262mm*216mm	322mm*231.5mm
Overall size (WxDxH) [mm]	308x116.5x353	370x126.5x420

Model list:

MODEL LIST 1		EA2KSI	EA2.5KSI	EA3KSI	EA3KSI-D
INPUT(PV)	V _{MAX} PV [Vdc]	600			
	I _{sc} PV [A]	12			2x12
	MPP Voltage Range V _{MPP} [Vdc]	90-550			
	Max. PV Input Current [A]	11			11x2
	MPP Full Power Voltage Range [Vdc]	200-480	250-480	300-480	150-480
	Input PV Operating Voltage Range [Vdc]	90-600			
	Start PV Voltage [Vdc]	120			
	Backfeed Current [A]	0			
	Overvoltage Category (OVC)	OVC II			
GRID CONNECTION	Rated Output Voltage U _r [Vac]	230			
	Normal Operating Voltage Range U _n [Vac]	180-280			
	Rated Output Frequency F _{NETZ} [Hz]	50/60			
	Normal Operating Frequency Range F _n [Hz]	45 - 55 / 55 - 65			
	Rated Output Power P _E [W]	2000	2500	3000	3000
	Max. Output Current I _{max} [A]	8.7	10.9	13	13
	Power Factor cosφ [λ]	0.8 cap-0.8ind adjustable (default: 1)			
	Efficiency max. η _{max} [%]	97.8			
	Night Power Consumption [W]	< 0.5			

	THD [V / I] (100% full power)	< 3%	
	Acoustic Noise [dB]	< 40	
	Overvoltage Category (OVC)	OVC III	
SYSTEM	Type of inverter	Non-transformer	
	Firmware [DSP/MCU]	MDSP: V009, MCU: V009	
	Separated by	Transformerless	
	MPPT strings	1	2
	MPPT tracking	1	2
	Protective Class	1	
	Enclosure Protection (IP)	IP65	
	Operating Temperature Range [°C]	-25-60	
	Pollution degree (PD)	PD3 for outside, PD2 for inside	
	Altitude [m]	4000 (> 2000 derating power)	
	Weight [kg]	< 9	< 11.5
	Size (WxDxH) [mm]	308x116.5x353	370x126.5x420
Note:			

MODEL LIST 2		EA3.68KSI	EA4KSI	EA4.6KSI	EA5KSI	EA6KSI
INPUT(PV)	V_{MAX} PV [Vdc]	600				
	I_{SC} PV [A]	2x12				
	MPP Voltage Range V_{MPP} [Vdc]	90-550				
	Max. PV Input Current [A]	11x2				
	MPP Full Power Voltage Range [Vdc]	200-480		230-480	250-480	300-480
	Input PV Operating Voltage Range [Vdc]	90-600				
	Start PV Voltage [Vdc]	120				
	Backfeed Current [A]	0				
	Overvoltage Category (OVC)	OVC II				
GRID CONNECTION	Rated Output Voltage U_r [Vac]	230				
	Normal Operating Voltage Range U_n [Vac]	180-280				
	Rated Output Frequency F_{NETZ} [Hz]	50/60				
	Normal Operating Frequency Range F_n [Hz]	45 - 55 / 55 - 65				

	Rated Output Power P_E [W]	3680	4000	4600	5000	6000
	Max. Output Current I_{max} [A]	16	17.4	20	21.8	26.1
	Power Factor $\cos\phi$ [λ]	0.8 cap-0.8ind adjustable (default: 1)				
	Efficiency max. η_{max} [%]	97.8				
	Night Power Consumption [W]	< 0.5				
	THD [V / I] (100% full power)	< 3%				
	Acoustic Noise [dB]	< 40				
	Overvoltage Category (OVC)	OVC III				
SYSTEM	Type of inverter	Non-transformer				
	Firmware [DSP/MCU]	MDSP: V009, MCU: V009				
	Separated by	Transformerless				
	MPPT strings	2				
	MPPT tracking	2				
	Protective Class	1				
	Enclosure Protection (IP)	IP65				
	Operating Temperature Range [°C]	-25-60				
	Pollution degree (PD)	PD3 for outside, PD2 for inside				
	Altitude [m]	4000 (> 2000 derating power)				
	Weight [kg]	< 11.5				
	Size (WxDxH) [mm]	370x126.5x420				
Note:						

Protection function of PGU:

1. Over & under grid voltage protection.
2. Over & under grid frequency protection.
3. Anti-islanding protection.
4. NS & NA protection redundantly.
5. Relays used in series for grid auto-disconnection devices.
6. Short-circuit protection rely on external circuit break which was specified in installation manual.
7. Over temperature derating and protection.
8. Over current protection.
9. Relay function self-check.

Throughout the test report following abbreviations may be used:

• cl	clearance	• int	internal distance
• dcr	creepage distance	• o-c	open-circuit
• dti	distance through insulation	• o-l	overload
• PCE	Power Conversion Equipment	• s-c	short-circuit
• BI	basic insulation	• SI	supplementary insulation
• DI	double insulation	• RI	reinforced insulation

VDE-AR-N 4105:2011			
Clause	Requirement – Test	Result - Remark	Verdict
5	Network connection		P
5.1	Principles for determination of the network connection point	To be considered in final installation system.	N/A
5.2	Rating of the network equipment	To be considered in final installation system.	N/A
5.3	Permissible voltage change	To be considered in final installation system.	N/A
5.4	System reactions		P
5.4.1	General		P
5.4.2	Rapid voltage changes	See attachment table F.3	P
5.4.3	Flicker	See attachment table F.3	P
5.4.4	Harmonics and inter-harmonics	See attachment table F.3	P
5.4.5	Voltage unbalance	The maximal power difference between each phase is less than 5% $S_{E_{max}}$.	P
5.4.6	Commutation notches		N/A
5.4.7	Audio-frequency centralised ripple-control		P
5.4.8	Carrier frequent usage of the customer network		P
5.4.9	Precautionary measures against voltage drops and voltage interruptions		P
5.5	Connection criteria	Complies.	P
5.6	Three-phase network	Complies.	P
5.6.1	General		P
5.6.2	Three-phase synchronous generators		N/A
5.6.3	Three-phase inverter systems	Complies.	P
5.7	Behaviour of the power generation system at the network		P
5.7.1	General		P
5.7.2	Maximum permissible short-circuit current	1 time of rated current.	P
5.7.3	Active power output	Complies.	P
5.7.3.1	Basics		P
5.7.3.2	Generation management/network security management		P

VDE-AR-N 4105:2011			
Clause	Requirement – Test	Result - Remark	Verdict
5.7.3.3	Active power feed-in at over frequency	When frequency between 50.2Hz and 51.5Hz, the power reduces and increases with a gradient of 40%P _M per Hz. If the possible power is greater than P _M after the frequency drops below 50.2Hz again, the increase gradient of the power output is less than 10%P _{Emax} .	P
5.7.3.4	Active power feed-in at under frequency	The generation system doesn't disconnect before the frequency drops below 47.5Hz.	P
5.7.4	Principles for network support	Complies.	P
5.7.5	Reactive power	See attachment table F.3	P

6	Construction of the power generation system/network and system protection (NS protection)		P
6.1	General requirement	Single fault safety: Failures evaluation and risk analysis were performed by means of fault simulation and single fault conditions. NA & NS protection redundant design is to avoid hazards in case of software failure.	P
6.2	Central NS protection	Integrated NS protection	N/A
6.3	Integrated NS protection		P
6.4	Interface switch		P
6.4.1	General		P
6.4.2	Central interface switch	Integrated interface switch used.	N/A
6.4.3	Integrated interface switch	Power relays are installed according to the single-fault tolerance requirements.	P
6.5	Protection devices for the interface switch		P
6.5.1	General		P
6.5.2	Protective functions	See attachment table F.4	P
6.5.3	Islanding detection	The islanding detection function complied with both active and passive methods.	P

VDE-AR-N 4105:2011			
Clause	Requirement – Test	Result - Remark	Verdict
7	Metering for billing purposes	To be considered in final installation system.	N/A
8	Operation of the system		P
8.1	General		P
	Power reduction or disconnection required due to network conditions		P
	Access		N/A
	Exchange of information		N/A
	Coupling of network connection points		N/A
	Behaviour in the event of disturbances		N/A
8.2	Particular characteristics of the management of the network operator's network	To be considered in final installation system.	N/A
	Earthing and short-circuiting for works on the network		N/A
	Operation of network stand-by systems		N/A
8.3	Connection conditions and synchronisation		P
8.3.1	General		P
8.3.2	Connection of synchronous generators		N/A
8.3.3	Connection of asynchronous generators		N/A
8.3.4	Connection of power generation units with inverters		P
8.4	Reactive power compensation		N/A
9	Verification of the electrical properties		P
9.1	General		P
9.2	Verification of the feed-in power		P
9.2.1	Verification of the feed-in active power		P
9.2.2	Verification of the reactive power values		P
9.2.3	Verification of the reactive power transition function		P
9.3	Verification of the network reactions		P
9.4	Verification of the features of the network and system protection		P

D	ANNEX D, Islanding detection (normative)		P
D.1	Islanding detection by means of the oscillating circuit test		P
	Test circuit		P
	Test sequence		P
D.2	Islanding detection by three-phase voltage monitoring		N/A

F	ANNEX F, Forms (mandatory) (normative)		P
F.1	Initial start-up protocol for power generation systems		P
F.2	Data sheet for power generation systems		P
F.3	Requirements for the test report for power generation units		P
F.4	Requirements for the test report for the NS protection		P

--End of test report--

F.3 Requirements for the test report for power generation units (VDE-AR-N 4105)											
A.1 Requirements to the Test Report on Generation Units (DIN VDE V 0124-100)											
Extract from the test report on the certificate of units					50185159 001						
"Determination of electrical properties"											
Type of system: Grid-tied PV Inverter											
Manufacturer: EAST Group Co., Ltd.											
Manufacturer's data:											
Type:	EA2KSI	EA2.5KSI	EA3KSI	EA3KSI-D	EA3.68KSI	EA4KSI	EA4.6KSI	EA5KSI	EA6KSI		
Active Power[W]:	2000	2500	3000	3000	3680	4000	4600	5000	6000		
Rating voltage[Vac]:	230	230	230	230	230	230	230	230	230		
Measuring period: from 2018-08-10 to 2018-09-10											
<i>Remark:</i>											
Type:	EA2KSI	EA2.5KSI	EA3KSI	EA3KSI-D	EA3.68KSI	EA4KSI	EA4.6KSI	EA5KSI	EA6KSI		
Active Power[W]:	2032	2489	3021	3010	3685	4016	4591	5010	5917		
P_{Emax}	PGU < 3.68KVA, PGUs > 13.8kVA				3.68kVA < PGU < 13.8KVA, PGUs > 13.8kVA						
Reactive power reference:											
Active power P/P _n [%]	10	20	30	40	50	60	70	80	90	100	
Max. possible cosφ _{under-excited}	N/A	0.801	0.801	0.803	0.801	0.801	0.804	0.803	0.801	N/A	
Max. possible cosφ _{over-excited}	N/A	0.802	0.804	0.802	0.799	0.801	0.803	0.798	0.800	N/A	
<i>Remark: Because of the limit of maximal apparent power output, the 100% real power can be reached only when cosφ=1.</i>											
Compliance of required displacement factor cosφ:											
Default in system control	0.800 _o	0.840 _o	0.880 _o	0.920 _o	0.960 _o	1.000	0.960 _u	0.920 _u	0.880 _u	0.840 _u	0.800 _u
Measured value at PGU terminals	0.803 _o	0.843 _o	0.885 _o	0.921 _o	0.960 _o	0.999	0.965 _u	0.928 _u	0.880 _u	0.841 _u	0.802
<i>Remark: Above PF values are measured under 50%P_n output.</i>											
Reactive power transfer function – Standard- cosφ (P) characteristic:											
Active power P/P _n [%]	10	20	30	40	50	60	70	80	90	100	
cosφ	N/A	0.997	0.998	0.999	0.999	0.982	0.961	0.941	0.919	N/A	
Conform to Standard-cosφ (P) characteristic.											
<i>Remark: Because of the limit of maximal apparent power output, the 100% real power can be reached only when cosφ=1.</i>											
Switching actions											
Marking operation without default (to primary energy carrier)					ki	0.047	0.039	0.035			
Worst case at switch over of generator sections					ki	N/A	N/A	N/A			
Marking operation at reference conditions(of primary energy carrier)					ki	0.035	0.034	0.037			
Breaking operation at nominal power					ki	0.423	0.740	0.207			
Worst case value of all switching operations					kimax	0.423	0.740	0.207			
Flicker											
Angle of network impedance Ψ _k :					30°	50°	70°	85°			
Flicker coefficient of system flicker CΨ:					9.159	N/A	N/A	N/A			
<i>Remark: The most unfavorable angle of network impedance approximately 32° was selected for testing.</i>											

Harmonics-EA2KSI											
Active power P/P _n [%]	0	10	20	30	40	50	60	70	80	90	100
Harmonic number	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
2	0.0099	0.0115	0.0130	0.0169	0.0165	0.0164	0.0164	0.0172	0.0181	0.0213	0.0232
3	0.0470	0.1450	0.0942	0.1215	0.1458	0.1565	0.1199	0.1223	0.1225	0.1241	0.1253
4	0.0126	0.0152	0.0108	0.0086	0.0110	0.0101	0.0099	0.0101	0.0094	0.0091	0.0097
5	0.0588	0.0913	0.0454	0.0553	0.0652	0.0722	0.0592	0.0587	0.0600	0.0611	0.0624
6	0.0070	0.0099	0.0063	0.0057	0.0061	0.0075	0.0077	0.0076	0.0072	0.0067	0.0066
7	0.0377	0.0517	0.0534	0.0127	0.0362	0.0507	0.0489	0.0486	0.0486	0.0477	0.0471
8	0.0058	0.0068	0.0081	0.0068	0.0053	0.0058	0.0066	0.0066	0.0065	0.0058	0.0061
9	0.0212	0.0318	0.0604	0.0328	0.0161	0.0316	0.0383	0.0411	0.0423	0.0426	0.0422
10	0.0049	0.0055	0.0062	0.0067	0.0057	0.0054	0.0057	0.0061	0.0062	0.0056	0.0056
11	0.0131	0.0335	0.0214	0.0417	0.0254	0.0205	0.0289	0.0337	0.0365	0.0371	0.0373
12	0.0050	0.0037	0.0062	0.0063	0.0068	0.0057	0.0053	0.0054	0.0058	0.0052	0.0054
13	0.0076	0.0175	0.0144	0.0321	0.0316	0.0208	0.0222	0.0273	0.0306	0.0321	0.0326
14	0.0046	0.0038	0.0053	0.0051	0.0063	0.0059	0.0052	0.0054	0.0057	0.0054	0.0055
15	0.0049	0.0167	0.0257	0.0167	0.0286	0.0242	0.0175	0.0226	0.0264	0.0287	0.0296
16	0.0044	0.0038	0.0055	0.0056	0.0054	0.0060	0.0053	0.0054	0.0055	0.0053	0.0054
17	0.0047	0.0122	0.0188	0.0150	0.0195	0.0235	0.0149	0.0176	0.0216	0.0241	0.0256
18	0.0043	0.0038	0.0048	0.0060	0.0054	0.0061	0.0053	0.0054	0.0054	0.0053	0.0056
19	0.0054	0.0095	0.0106	0.0180	0.0131	0.0204	0.0151	0.0154	0.0190	0.0218	0.0239
20	0.0045	0.0043	0.0063	0.0055	0.0059	0.0059	0.0057	0.0056	0.0057	0.0057	0.0057
21	0.0066	0.0071	0.0117	0.0135	0.0113	0.0149	0.0151	0.0142	0.0162	0.0192	0.0215
22	0.0044	0.0043	0.0051	0.0052	0.0057	0.0058	0.0058	0.0054	0.0055	0.0055	0.0056
23	0.0070	0.0059	0.0100	0.0078	0.0120	0.0115	0.0147	0.0143	0.0148	0.0172	0.0199
24	0.0045	0.0043	0.0046	0.0052	0.0059	0.0059	0.0055	0.0056	0.0056	0.0057	0.0058
25	0.0079	0.0041	0.0056	0.0075	0.0103	0.0110	0.0137	0.0146	0.0144	0.0160	0.0185
26	0.0043	0.0044	0.0047	0.0056	0.0054	0.0055	0.0055	0.0056	0.0055	0.0056	0.0056
27	0.0071	0.0037	0.0067	0.0084	0.0079	0.0120	0.0133	0.0152	0.0151	0.0151	0.0165
28	0.0040	0.0041	0.0047	0.0051	0.0050	0.0053	0.0053	0.0055	0.0055	0.0058	0.0059
29	0.0064	0.0039	0.0057	0.0072	0.0077	0.0123	0.0129	0.0155	0.0150	0.0144	0.0149
30	0.0039	0.0039	0.0042	0.0047	0.0046	0.0051	0.0055	0.0055	0.0059	0.0061	0.0063
31	0.0054	0.0042	0.0055	0.0065	0.0084	0.0105	0.0118	0.0137	0.0137	0.0129	0.0121
32	0.0038	0.0039	0.0042	0.0044	0.0046	0.0049	0.0055	0.0058	0.0059	0.0061	0.0062
33	0.0051	0.0050	0.0066	0.0073	0.0086	0.0087	0.0111	0.0121	0.0123	0.0107	0.0097
34	0.0034	0.0033	0.0041	0.0042	0.0043	0.0047	0.0055	0.0060	0.0059	0.0061	0.0061
35	0.0052	0.0056	0.0060	0.0073	0.0075	0.0066	0.0096	0.0097	0.0099	0.0087	0.0084
36	0.0034	0.0028	0.0038	0.0040	0.0041	0.0045	0.0057	0.0058	0.0058	0.0059	0.0060
37	0.0051	0.0056	0.0053	0.0053	0.0051	0.0049	0.0075	0.0068	0.0072	0.0069	0.0066
38	0.0033	0.0030	0.0034	0.0038	0.0040	0.0040	0.0053	0.0055	0.0057	0.0057	0.0060
39	0.0064	0.0063	0.0061	0.0047	0.0046	0.0045	0.0065	0.0060	0.0064	0.0063	0.0064
40	0.0038	0.0032	0.0036	0.0036	0.0038	0.0040	0.0053	0.0054	0.0058	0.0058	0.0062
Remark:											

Harmonics-EA2.5KSI											
Active power P/P _n [%]	0	10	20	30	40	50	60	70	80	90	100
Harmonic number	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
2	0.0093	0.0064	0.0125	0.0168	0.0167	0.0184	0.0210	0.0205	0.0241	0.0223	0.0267
3	0.0487	0.1540	0.1032	0.1390	0.1562	0.1214	0.1227	0.1234	0.1252	0.1282	0.1325
4	0.0100	0.0083	0.0077	0.0092	0.0103	0.0097	0.0099	0.0093	0.0086	0.0084	0.0105
5	0.0559	0.0732	0.0503	0.0631	0.0717	0.0591	0.0598	0.0608	0.0621	0.0644	0.0664
6	0.0057	0.0106	0.0066	0.0060	0.0078	0.0072	0.0070	0.0061	0.0072	0.0067	0.0070
7	0.0381	0.0720	0.0189	0.0307	0.0506	0.0488	0.0486	0.0479	0.0470	0.0468	0.0465
8	0.0049	0.0054	0.0053	0.0053	0.0057	0.0067	0.0064	0.0057	0.0060	0.0059	0.0064
9	0.0214	0.0223	0.0513	0.0164	0.0311	0.0395	0.0422	0.0427	0.0422	0.0416	0.0406
10	0.0044	0.0043	0.0067	0.0059	0.0054	0.0060	0.0061	0.0055	0.0056	0.0058	0.0060
11	0.0138	0.0340	0.0423	0.0307	0.0203	0.0299	0.0351	0.0370	0.0372	0.0370	0.0363
12	0.0046	0.0059	0.0052	0.0065	0.0059	0.0054	0.0057	0.0054	0.0057	0.0057	0.0058
13	0.0083	0.0248	0.0191	0.0341	0.0209	0.0234	0.0294	0.0321	0.0328	0.0330	0.0324
14	0.0044	0.0041	0.0058	0.0057	0.0060	0.0053	0.0054	0.0053	0.0056	0.0057	0.0058
15	0.0056	0.0117	0.0174	0.0275	0.0245	0.0184	0.0247	0.0280	0.0298	0.0306	0.0310
16	0.0042	0.0041	0.0058	0.0054	0.0059	0.0053	0.0053	0.0053	0.0053	0.0057	0.0057
17	0.0045	0.0166	0.0214	0.0165	0.0236	0.0147	0.0194	0.0235	0.0255	0.0270	0.0284
18	0.0043	0.0042	0.0052	0.0055	0.0060	0.0053	0.0054	0.0053	0.0054	0.0057	0.0058
19	0.0046	0.0105	0.0172	0.0127	0.0202	0.0148	0.0174	0.0214	0.0238	0.0257	0.0272
20	0.0043	0.0045	0.0052	0.0061	0.0058	0.0058	0.0057	0.0056	0.0059	0.0059	0.0058
21	0.0058	0.0082	0.0088	0.0131	0.0147	0.0143	0.0143	0.0181	0.0214	0.0240	0.0261
22	0.0043	0.0042	0.0052	0.0057	0.0057	0.0057	0.0055	0.0056	0.0056	0.0057	0.0057
23	0.0062	0.0078	0.0103	0.0124	0.0113	0.0149	0.0144	0.0167	0.0201	0.0224	0.0242
24	0.0044	0.0046	0.0053	0.0057	0.0057	0.0058	0.0056	0.0055	0.0057	0.0058	0.0062
25	0.0073	0.0050	0.0090	0.0090	0.0110	0.0142	0.0145	0.0155	0.0184	0.0208	0.0218
26	0.0044	0.0044	0.0049	0.0051	0.0055	0.0054	0.0057	0.0057	0.0057	0.0059	0.0062
27	0.0067	0.0047	0.0058	0.0072	0.0120	0.0139	0.0150	0.0149	0.0164	0.0184	0.0192
28	0.0042	0.0040	0.0047	0.0049	0.0053	0.0053	0.0057	0.0057	0.0059	0.0063	0.0064
29	0.0065	0.0044	0.0068	0.0087	0.0123	0.0135	0.0154	0.0148	0.0151	0.0161	0.0167
30	0.0040	0.0041	0.0044	0.0048	0.0051	0.0055	0.0057	0.0059	0.0061	0.0063	0.0066
31	0.0057	0.0050	0.0073	0.0092	0.0104	0.0120	0.0139	0.0130	0.0123	0.0127	0.0141
32	0.0039	0.0040	0.0044	0.0047	0.0048	0.0055	0.0055	0.0059	0.0061	0.0064	0.0065
33	0.0055	0.0052	0.0061	0.0082	0.0085	0.0109	0.0124	0.0112	0.0099	0.0103	0.0111
34	0.0034	0.0035	0.0039	0.0043	0.0046	0.0056	0.0059	0.0060	0.0062	0.0064	0.0065
35	0.0056	0.0059	0.0063	0.0063	0.0065	0.0093	0.0099	0.0092	0.0085	0.0089	0.0105
36	0.0033	0.0030	0.0036	0.0041	0.0044	0.0055	0.0057	0.0058	0.0060	0.0064	0.0065
37	0.0052	0.0056	0.0061	0.0049	0.0049	0.0073	0.0070	0.0072	0.0065	0.0074	0.0088
38	0.0031	0.0030	0.0037	0.0038	0.0039	0.0054	0.0057	0.0056	0.0060	0.0063	0.0067
39	0.0064	0.0061	0.0055	0.0051	0.0044	0.0061	0.0062	0.0065	0.0065	0.0071	0.0087
40	0.0035	0.0030	0.0036	0.0038	0.0040	0.0053	0.0056	0.0058	0.0061	0.0066	0.0070
Remark:											

Harmonics-EA3KSI											
Active power P/P _n [%]	0	10	20	30	40	50	60	70	80	90	100
Harmonic number	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
2	0.0101	0.0101	0.0192	0.0188	0.0189	0.0188	0.0190	0.0225	0.0248	0.0280	0.0286
3	0.0532	0.1237	0.1194	0.1487	0.1144	0.1188	0.1173	0.1172	0.1186	0.1233	0.1445
4	0.0129	0.0125	0.0089	0.0132	0.0111	0.0115	0.0089	0.0099	0.0106	0.0087	0.0103
5	0.0533	0.0449	0.0552	0.0684	0.0601	0.0592	0.0602	0.0614	0.0645	0.0674	0.0708
6	0.0067	0.0073	0.0057	0.0080	0.0089	0.0087	0.0073	0.0072	0.0077	0.0087	0.0077
7	0.0390	0.0848	0.0127	0.0437	0.0496	0.0489	0.0476	0.0469	0.0470	0.0472	0.0492
8	0.0057	0.0076	0.0070	0.0053	0.0075	0.0074	0.0061	0.0062	0.0062	0.0064	0.0066
9	0.0223	0.0327	0.0342	0.0222	0.0386	0.0424	0.0427	0.0419	0.0416	0.0408	0.0423
10	0.0048	0.0062	0.0068	0.0055	0.0060	0.0067	0.0060	0.0058	0.0060	0.0061	0.0059
11	0.0152	0.0138	0.0422	0.0203	0.0286	0.0349	0.0368	0.0371	0.0373	0.0371	0.0372
12	0.0049	0.0054	0.0067	0.0069	0.0053	0.0060	0.0058	0.0059	0.0062	0.0060	0.0058
13	0.0097	0.0328	0.0315	0.0268	0.0220	0.0294	0.0324	0.0330	0.0335	0.0334	0.0345
14	0.0046	0.0061	0.0051	0.0068	0.0052	0.0057	0.0060	0.0056	0.0058	0.0063	0.0057
15	0.0068	0.0174	0.0163	0.0283	0.0175	0.0245	0.0283	0.0301	0.0316	0.0327	0.0340
16	0.0043	0.0053	0.0061	0.0065	0.0054	0.0055	0.0057	0.0060	0.0058	0.0057	0.0057
17	0.0048	0.0103	0.0159	0.0226	0.0156	0.0199	0.0243	0.0272	0.0291	0.0306	0.0322
18	0.0043	0.0048	0.0062	0.0059	0.0058	0.0058	0.0058	0.0059	0.0060	0.0059	0.0057
19	0.0044	0.0156	0.0186	0.0168	0.0156	0.0172	0.0216	0.0246	0.0268	0.0292	0.0311
20	0.0044	0.0046	0.0057	0.0061	0.0064	0.0060	0.0061	0.0061	0.0059	0.0061	0.0057
21	0.0051	0.0091	0.0134	0.0114	0.0154	0.0148	0.0190	0.0229	0.0263	0.0278	0.0288
22	0.0044	0.0053	0.0054	0.0059	0.0062	0.0056	0.0056	0.0057	0.0060	0.0061	0.0063
23	0.0056	0.0073	0.0079	0.0116	0.0153	0.0148	0.0175	0.0214	0.0243	0.0254	0.0267
24	0.0046	0.0050	0.0054	0.0060	0.0056	0.0056	0.0057	0.0058	0.0061	0.0066	0.0064
25	0.0070	0.0060	0.0083	0.0122	0.0137	0.0151	0.0160	0.0194	0.0212	0.0223	0.0223
26	0.0045	0.0044	0.0056	0.0057	0.0056	0.0055	0.0058	0.0059	0.0062	0.0063	0.0063
27	0.0063	0.0052	0.0091	0.0112	0.0132	0.0154	0.0152	0.0170	0.0189	0.0192	0.0201
28	0.0042	0.0047	0.0050	0.0052	0.0055	0.0055	0.0059	0.0061	0.0064	0.0065	0.0063
29	0.0064	0.0055	0.0074	0.0098	0.0128	0.0154	0.0145	0.0148	0.0160	0.0173	0.0186
30	0.0040	0.0042	0.0047	0.0049	0.0056	0.0056	0.0060	0.0062	0.0066	0.0068	0.0064
31	0.0058	0.0052	0.0069	0.0081	0.0116	0.0137	0.0126	0.0115	0.0126	0.0143	0.0159
32	0.0038	0.0038	0.0043	0.0044	0.0055	0.0057	0.0060	0.0064	0.0065	0.0069	0.0069
33	0.0058	0.0061	0.0077	0.0079	0.0109	0.0116	0.0102	0.0094	0.0104	0.0124	0.0149
34	0.0035	0.0038	0.0041	0.0042	0.0056	0.0062	0.0062	0.0061	0.0068	0.0072	0.0068
35	0.0059	0.0065	0.0072	0.0072	0.0094	0.0094	0.0088	0.0081	0.0095	0.0124	0.0135
36	0.0033	0.0033	0.0041	0.0041	0.0058	0.0060	0.0061	0.0063	0.0066	0.0068	0.0069
37	0.0054	0.0053	0.0049	0.0054	0.0071	0.0068	0.0070	0.0072	0.0082	0.0101	0.0112
38	0.0030	0.0031	0.0039	0.0040	0.0056	0.0061	0.0060	0.0066	0.0071	0.0070	0.0070
39	0.0064	0.0061	0.0044	0.0045	0.0061	0.0060	0.0066	0.0069	0.0083	0.0102	0.0118
40	0.0035	0.0033	0.0035	0.0037	0.0053	0.0056	0.0060	0.0066	0.0065	0.0070	0.0071
Remark:											

Harmonics-EA3KSI-D											
Active power P/P _n [%]	0	10	20	30	40	50	60	70	80	90	100
Harmonic number	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
2	0.0101	0.0185	0.0188	0.0192	0.0193	0.0198	0.0210	0.0229	0.0241	0.0286	0.0300
3	0.0546	0.1091	0.1399	0.1531	0.1215	0.1241	0.1232	0.1263	0.1319	0.1410	0.1509
4	0.0137	0.0075	0.0084	0.0132	0.0116	0.0106	0.0094	0.0097	0.0102	0.0095	0.0099
5	0.0527	0.0428	0.0667	0.0692	0.0601	0.0600	0.0599	0.0622	0.0648	0.0678	0.0730
6	0.0071	0.0092	0.0055	0.0086	0.0083	0.0079	0.0064	0.0067	0.0081	0.0079	0.0082
7	0.0386	0.1042	0.0247	0.0457	0.0495	0.0488	0.0471	0.0459	0.0458	0.0458	0.0474
8	0.0061	0.0089	0.0070	0.0055	0.0074	0.0066	0.0061	0.0061	0.0067	0.0064	0.0065
9	0.0224	0.0648	0.0525	0.0247	0.0394	0.0425	0.0417	0.0415	0.0404	0.0398	0.0412
10	0.0050	0.0061	0.0077	0.0053	0.0061	0.0063	0.0057	0.0057	0.0058	0.0060	0.0063
11	0.0152	0.0451	0.0570	0.0190	0.0298	0.0358	0.0371	0.0364	0.0361	0.0353	0.0358
12	0.0049	0.0078	0.0065	0.0062	0.0053	0.0061	0.0055	0.0055	0.0056	0.0058	0.0059
13	0.0097	0.0570	0.0403	0.0242	0.0232	0.0299	0.0320	0.0326	0.0321	0.0320	0.0333
14	0.0046	0.0054	0.0051	0.0067	0.0052	0.0053	0.0053	0.0055	0.0058	0.0058	0.0061
15	0.0070	0.0346	0.0242	0.0269	0.0185	0.0257	0.0290	0.0299	0.0306	0.0308	0.0322
16	0.0042	0.0051	0.0059	0.0065	0.0051	0.0052	0.0054	0.0055	0.0059	0.0059	0.0058
17	0.0050	0.0317	0.0269	0.0232	0.0149	0.0202	0.0242	0.0264	0.0275	0.0288	0.0307
18	0.0043	0.0068	0.0065	0.0057	0.0055	0.0054	0.0053	0.0058	0.0060	0.0058	0.0058
19	0.0044	0.0292	0.0287	0.0178	0.0149	0.0179	0.0220	0.0244	0.0258	0.0273	0.0296
20	0.0044	0.0052	0.0054	0.0055	0.0058	0.0055	0.0057	0.0059	0.0062	0.0059	0.0059
21	0.0049	0.0170	0.0189	0.0114	0.0143	0.0146	0.0192	0.0222	0.0249	0.0268	0.0288
22	0.0044	0.0053	0.0052	0.0057	0.0057	0.0052	0.0055	0.0057	0.0059	0.0058	0.0060
23	0.0052	0.0169	0.0120	0.0098	0.0138	0.0132	0.0171	0.0208	0.0233	0.0251	0.0269
24	0.0044	0.0051	0.0058	0.0057	0.0056	0.0056	0.0055	0.0057	0.0060	0.0061	0.0065
25	0.0066	0.0112	0.0110	0.0098	0.0126	0.0132	0.0154	0.0189	0.0216	0.0231	0.0238
26	0.0044	0.0046	0.0057	0.0058	0.0056	0.0054	0.0055	0.0057	0.0061	0.0063	0.0064
27	0.0063	0.0075	0.0094	0.0100	0.0122	0.0135	0.0146	0.0179	0.0199	0.0209	0.0213
28	0.0043	0.0044	0.0049	0.0054	0.0054	0.0053	0.0057	0.0059	0.0063	0.0066	0.0069
29	0.0061	0.0063	0.0056	0.0093	0.0118	0.0143	0.0145	0.0162	0.0179	0.0181	0.0190
30	0.0042	0.0042	0.0046	0.0050	0.0054	0.0055	0.0059	0.0063	0.0066	0.0068	0.0068
31	0.0053	0.0056	0.0049	0.0078	0.0114	0.0141	0.0132	0.0134	0.0145	0.0155	0.0165
32	0.0041	0.0040	0.0047	0.0045	0.0056	0.0054	0.0061	0.0064	0.0066	0.0067	0.0070
33	0.0050	0.0058	0.0051	0.0073	0.0111	0.0128	0.0121	0.0114	0.0120	0.0135	0.0149
34	0.0037	0.0036	0.0043	0.0041	0.0057	0.0055	0.0062	0.0066	0.0067	0.0068	0.0071
35	0.0050	0.0068	0.0044	0.0071	0.0104	0.0113	0.0101	0.0092	0.0105	0.0119	0.0137
36	0.0031	0.0035	0.0038	0.0039	0.0054	0.0055	0.0060	0.0065	0.0066	0.0067	0.0070
37	0.0051	0.0072	0.0042	0.0064	0.0089	0.0086	0.0079	0.0072	0.0083	0.0103	0.0120
38	0.0031	0.0036	0.0038	0.0036	0.0053	0.0056	0.0058	0.0062	0.0068	0.0074	0.0071
39	0.0066	0.0070	0.0050	0.0063	0.0077	0.0074	0.0069	0.0071	0.0081	0.0103	0.0124
40	0.0033	0.0034	0.0037	0.0038	0.0050	0.0054	0.0059	0.0061	0.0067	0.0069	0.0075
Remark:											

Harmonics-EA3.68KSI											
Active power P/P _n [%]	0	10	20	30	40	50	60	70	80	90	100
Harmonic number	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
2	0.0092	0.0084	0.0152	0.0147	0.0191	0.0217	0.0227	0.0254	0.0278	0.0308	0.0308
3	0.0610	0.0960	0.1368	0.1598	0.1214	0.1262	0.1264	0.1327	0.1430	0.1551	0.1703
4	0.0089	0.0081	0.0088	0.0099	0.0093	0.0091	0.0097	0.0105	0.0110	0.0113	0.0120
5	0.0520	0.0425	0.0622	0.0734	0.0594	0.0631	0.0630	0.0659	0.0701	0.0759	0.0832
6	0.0050	0.0046	0.0058	0.0075	0.0066	0.0073	0.0075	0.0074	0.0088	0.0080	0.0096
7	0.0413	0.0699	0.0282	0.0541	0.0491	0.0461	0.0463	0.0460	0.0461	0.0457	0.0478
8	0.0045	0.0060	0.0054	0.0058	0.0062	0.0066	0.0062	0.0060	0.0069	0.0069	0.0082
9	0.0252	0.0553	0.0183	0.0371	0.0420	0.0415	0.0414	0.0401	0.0396	0.0396	0.0392
10	0.0042	0.0045	0.0056	0.0055	0.0058	0.0063	0.0057	0.0060	0.0058	0.0062	0.0072
11	0.0181	0.0121	0.0334	0.0243	0.0348	0.0366	0.0366	0.0362	0.0354	0.0349	0.0360
12	0.0044	0.0049	0.0059	0.0055	0.0055	0.0057	0.0054	0.0060	0.0057	0.0060	0.0064
13	0.0127	0.0199	0.0349	0.0203	0.0288	0.0329	0.0329	0.0325	0.0323	0.0325	0.0330
14	0.0042	0.0046	0.0053	0.0058	0.0053	0.0058	0.0057	0.0060	0.0060	0.0061	0.0061
15	0.0092	0.0287	0.0265	0.0215	0.0236	0.0300	0.0304	0.0310	0.0319	0.0323	0.0332
16	0.0042	0.0049	0.0054	0.0058	0.0055	0.0058	0.0059	0.0057	0.0060	0.0058	0.0058
17	0.0065	0.0138	0.0149	0.0220	0.0190	0.0268	0.0269	0.0287	0.0302	0.0316	0.0318
18	0.0042	0.0050	0.0058	0.0062	0.0056	0.0058	0.0057	0.0060	0.0061	0.0059	0.0060
19	0.0049	0.0112	0.0134	0.0211	0.0162	0.0253	0.0253	0.0273	0.0293	0.0294	0.0293
20	0.0043	0.0053	0.0063	0.0061	0.0056	0.0058	0.0059	0.0061	0.0061	0.0058	0.0062
21	0.0046	0.0123	0.0142	0.0175	0.0144	0.0231	0.0231	0.0263	0.0279	0.0279	0.0277
22	0.0043	0.0046	0.0056	0.0057	0.0055	0.0057	0.0057	0.0059	0.0062	0.0062	0.0064
23	0.0048	0.0090	0.0121	0.0140	0.0143	0.0220	0.0222	0.0244	0.0254	0.0253	0.0257
24	0.0045	0.0048	0.0055	0.0057	0.0054	0.0058	0.0057	0.0061	0.0067	0.0065	0.0064
25	0.0058	0.0064	0.0080	0.0117	0.0144	0.0199	0.0197	0.0221	0.0221	0.0222	0.0243
26	0.0045	0.0050	0.0052	0.0056	0.0056	0.0060	0.0059	0.0062	0.0065	0.0065	0.0064
27	0.0057	0.0064	0.0075	0.0115	0.0152	0.0181	0.0180	0.0194	0.0194	0.0210	0.0230
28	0.0042	0.0043	0.0049	0.0053	0.0056	0.0060	0.0063	0.0064	0.0065	0.0066	0.0067
29	0.0060	0.0048	0.0091	0.0123	0.0155	0.0158	0.0156	0.0166	0.0180	0.0200	0.0219
30	0.0042	0.0042	0.0048	0.0049	0.0056	0.0065	0.0064	0.0065	0.0065	0.0068	0.0068
31	0.0055	0.0062	0.0089	0.0116	0.0140	0.0121	0.0123	0.0139	0.0157	0.0186	0.0200
32	0.0040	0.0042	0.0047	0.0048	0.0058	0.0064	0.0063	0.0066	0.0068	0.0069	0.0068
33	0.0058	0.0060	0.0074	0.0101	0.0122	0.0103	0.0104	0.0118	0.0147	0.0173	0.0186
34	0.0035	0.0037	0.0041	0.0047	0.0058	0.0064	0.0064	0.0069	0.0072	0.0072	0.0075
35	0.0061	0.0061	0.0062	0.0078	0.0097	0.0086	0.0087	0.0106	0.0141	0.0159	0.0174
36	0.0030	0.0034	0.0041	0.0045	0.0060	0.0064	0.0063	0.0068	0.0073	0.0075	0.0076
37	0.0057	0.0061	0.0055	0.0052	0.0071	0.0072	0.0074	0.0094	0.0119	0.0135	0.0146
38	0.0029	0.0033	0.0038	0.0042	0.0060	0.0069	0.0068	0.0076	0.0076	0.0075	0.0081
39	0.0068	0.0059	0.0056	0.0042	0.0061	0.0073	0.0073	0.0095	0.0123	0.0135	0.0149
40	0.0031	0.0035	0.0036	0.0042	0.0055	0.0063	0.0063	0.0070	0.0078	0.0079	0.0084
Remark:											

Harmonics-EA4KSI											
Active power P/P _n [%]	0	10	20	30	40	50	60	70	80	90	100
Harmonic number	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
2	0.0090	0.0112	0.0142	0.0187	0.0209	0.0212	0.0235	0.0244	0.0272	0.0368	0.0360
3	0.0678	0.0953	0.1456	0.1208	0.1188	0.1163	0.1186	0.1273	0.1400	0.1541	0.1842
4	0.0131	0.0097	0.0144	0.0080	0.0089	0.0094	0.0092	0.0087	0.0104	0.0118	0.0114
5	0.0519	0.0448	0.0656	0.0601	0.0594	0.0612	0.0649	0.0681	0.0742	0.0819	0.0902
6	0.0064	0.0055	0.0057	0.0062	0.0074	0.0073	0.0081	0.0082	0.0094	0.0080	0.0090
7	0.0425	0.0553	0.0355	0.0498	0.0487	0.0472	0.0472	0.0475	0.0476	0.0482	0.0504
8	0.0055	0.0071	0.0052	0.0057	0.0065	0.0060	0.0070	0.0068	0.0076	0.0073	0.0079
9	0.0269	0.0607	0.0160	0.0385	0.0427	0.0422	0.0417	0.0413	0.0407	0.0405	0.0408
10	0.0046	0.0056	0.0052	0.0054	0.0060	0.0058	0.0062	0.0066	0.0069	0.0067	0.0072
11	0.0197	0.0204	0.0268	0.0290	0.0360	0.0373	0.0373	0.0365	0.0364	0.0366	0.0372
12	0.0046	0.0057	0.0059	0.0052	0.0057	0.0054	0.0059	0.0065	0.0068	0.0074	0.0069
13	0.0143	0.0147	0.0327	0.0215	0.0305	0.0330	0.0333	0.0332	0.0329	0.0340	0.0351
14	0.0042	0.0050	0.0053	0.0053	0.0056	0.0056	0.0056	0.0061	0.0064	0.0065	0.0066
15	0.0104	0.0262	0.0291	0.0175	0.0261	0.0297	0.0312	0.0324	0.0336	0.0345	0.0341
16	0.0041	0.0052	0.0052	0.0053	0.0055	0.0055	0.0058	0.0064	0.0058	0.0063	0.0066
17	0.0075	0.0187	0.0189	0.0152	0.0210	0.0263	0.0289	0.0308	0.0319	0.0322	0.0320
18	0.0041	0.0047	0.0053	0.0053	0.0054	0.0056	0.0058	0.0063	0.0059	0.0063	0.0063
19	0.0054	0.0108	0.0132	0.0154	0.0188	0.0235	0.0265	0.0289	0.0306	0.0304	0.0299
20	0.0042	0.0058	0.0058	0.0056	0.0059	0.0060	0.0062	0.0063	0.0060	0.0063	0.0062
21	0.0044	0.0116	0.0118	0.0154	0.0158	0.0212	0.0258	0.0284	0.0288	0.0284	0.0295
22	0.0043	0.0047	0.0055	0.0054	0.0057	0.0058	0.0060	0.0064	0.0064	0.0065	0.0063
23	0.0045	0.0098	0.0122	0.0145	0.0147	0.0203	0.0242	0.0257	0.0261	0.0271	0.0278
24	0.0046	0.0045	0.0056	0.0054	0.0056	0.0059	0.0062	0.0065	0.0065	0.0066	0.0065
25	0.0053	0.0057	0.0103	0.0135	0.0147	0.0178	0.0216	0.0224	0.0230	0.0241	0.0257
26	0.0047	0.0048	0.0054	0.0055	0.0056	0.0059	0.0063	0.0065	0.0066	0.0067	0.0065
27	0.0053	0.0067	0.0080	0.0130	0.0152	0.0167	0.0193	0.0200	0.0208	0.0236	0.0251
28	0.0044	0.0047	0.0049	0.0054	0.0058	0.0062	0.0065	0.0067	0.0072	0.0068	0.0070
29	0.0053	0.0054	0.0081	0.0125	0.0151	0.0154	0.0167	0.0177	0.0204	0.0226	0.0238
30	0.0043	0.0041	0.0048	0.0054	0.0058	0.0061	0.0067	0.0068	0.0071	0.0071	0.0072
31	0.0051	0.0054	0.0088	0.0116	0.0141	0.0122	0.0130	0.0153	0.0181	0.0198	0.0218
32	0.0042	0.0041	0.0044	0.0055	0.0059	0.0066	0.0070	0.0070	0.0074	0.0072	0.0075
33	0.0056	0.0064	0.0088	0.0112	0.0122	0.0106	0.0107	0.0134	0.0166	0.0183	0.0195
34	0.0036	0.0039	0.0042	0.0054	0.0061	0.0064	0.0069	0.0074	0.0076	0.0077	0.0077
35	0.0058	0.0060	0.0072	0.0099	0.0099	0.0085	0.0093	0.0126	0.0161	0.0176	0.0183
36	0.0031	0.0035	0.0040	0.0055	0.0061	0.0064	0.0068	0.0072	0.0075	0.0083	0.0082
37	0.0057	0.0054	0.0049	0.0078	0.0074	0.0067	0.0083	0.0110	0.0132	0.0153	0.0158
38	0.0028	0.0033	0.0038	0.0053	0.0059	0.0065	0.0068	0.0074	0.0077	0.0088	0.0085
39	0.0067	0.0063	0.0045	0.0067	0.0065	0.0068	0.0080	0.0111	0.0127	0.0148	0.0165
40	0.0031	0.0034	0.0037	0.0051	0.0056	0.0061	0.0069	0.0075	0.0080	0.0090	0.0089
Remark:											

Harmonics-EA4.6KSI											
Active power P/P _n [%]	0	10	20	30	40	50	60	70	80	90	100
Harmonic number	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
2	0.0085	0.0103	0.0165	0.0192	0.0216	0.0219	0.0249	0.0290	0.0333	0.0373	0.0432
3	0.0760	0.0960	0.1506	0.1197	0.1179	0.1170	0.1269	0.1403	0.1597	0.1807	0.2119
4	0.0068	0.0071	0.0087	0.0079	0.0089	0.0077	0.0086	0.0116	0.0135	0.0138	0.0150
5	0.0549	0.0486	0.0687	0.0592	0.0603	0.0632	0.0680	0.0747	0.0839	0.0918	0.1010
6	0.0043	0.0053	0.0063	0.0064	0.0064	0.0066	0.0078	0.0096	0.0089	0.0086	0.0111
7	0.0455	0.0315	0.0452	0.0494	0.0476	0.0470	0.0472	0.0468	0.0482	0.0501	0.0555
8	0.0039	0.0047	0.0054	0.0059	0.0055	0.0057	0.0065	0.0073	0.0067	0.0089	0.0089
9	0.0305	0.0592	0.0237	0.0413	0.0425	0.0416	0.0414	0.0410	0.0408	0.0396	0.0419
10	0.0038	0.0051	0.0053	0.0056	0.0056	0.0059	0.0063	0.0064	0.0068	0.0068	0.0073
11	0.0218	0.0360	0.0195	0.0334	0.0373	0.0371	0.0365	0.0361	0.0376	0.0369	0.0367
12	0.0040	0.0049	0.0056	0.0051	0.0054	0.0055	0.0062	0.0060	0.0069	0.0068	0.0062
13	0.0164	0.0127	0.0251	0.0266	0.0325	0.0330	0.0333	0.0333	0.0348	0.0347	0.0337
14	0.0040	0.0049	0.0057	0.0054	0.0054	0.0056	0.0059	0.0060	0.0061	0.0067	0.0063
15	0.0121	0.0206	0.0281	0.0223	0.0288	0.0310	0.0326	0.0336	0.0344	0.0329	0.0340
16	0.0040	0.0049	0.0056	0.0053	0.0054	0.0056	0.0061	0.0062	0.0060	0.0063	0.0068
17	0.0088	0.0216	0.0232	0.0167	0.0245	0.0279	0.0308	0.0326	0.0329	0.0310	0.0318
18	0.0041	0.0050	0.0056	0.0053	0.0056	0.0056	0.0062	0.0063	0.0063	0.0066	0.0070
19	0.0061	0.0145	0.0174	0.0152	0.0222	0.0260	0.0289	0.0302	0.0304	0.0298	0.0302
20	0.0042	0.0051	0.0058	0.0056	0.0057	0.0059	0.0061	0.0062	0.0066	0.0066	0.0069
21	0.0045	0.0099	0.0118	0.0140	0.0192	0.0244	0.0284	0.0290	0.0289	0.0295	0.0305
22	0.0042	0.0050	0.0057	0.0055	0.0056	0.0058	0.0063	0.0065	0.0063	0.0065	0.0070
23	0.0042	0.0119	0.0110	0.0145	0.0176	0.0230	0.0256	0.0260	0.0269	0.0285	0.0291
24	0.0043	0.0049	0.0056	0.0055	0.0056	0.0060	0.0065	0.0066	0.0065	0.0068	0.0070
25	0.0046	0.0071	0.0116	0.0147	0.0161	0.0211	0.0226	0.0230	0.0254	0.0267	0.0279
26	0.0043	0.0047	0.0056	0.0057	0.0058	0.0062	0.0065	0.0064	0.0068	0.0069	0.0069
27	0.0045	0.0056	0.0117	0.0153	0.0153	0.0187	0.0201	0.0211	0.0242	0.0258	0.0265
28	0.0042	0.0044	0.0053	0.0057	0.0062	0.0069	0.0066	0.0067	0.0068	0.0071	0.0074
29	0.0049	0.0073	0.0102	0.0150	0.0148	0.0163	0.0177	0.0200	0.0229	0.0250	0.0258
30	0.0041	0.0044	0.0051	0.0057	0.0064	0.0070	0.0066	0.0067	0.0071	0.0077	0.0076
31	0.0049	0.0063	0.0086	0.0134	0.0130	0.0129	0.0150	0.0186	0.0209	0.0224	0.0238
32	0.0040	0.0042	0.0046	0.0057	0.0062	0.0065	0.0066	0.0069	0.0072	0.0079	0.0079
33	0.0055	0.0065	0.0078	0.0115	0.0109	0.0100	0.0133	0.0166	0.0188	0.0201	0.0223
34	0.0035	0.0039	0.0042	0.0058	0.0063	0.0067	0.0072	0.0074	0.0077	0.0083	0.0082
35	0.0059	0.0074	0.0076	0.0094	0.0088	0.0089	0.0127	0.0160	0.0179	0.0195	0.0209
36	0.0030	0.0036	0.0041	0.0057	0.0064	0.0066	0.0071	0.0075	0.0079	0.0083	0.0091
37	0.0059	0.0059	0.0061	0.0069	0.0070	0.0074	0.0111	0.0134	0.0148	0.0171	0.0183
38	0.0028	0.0036	0.0038	0.0057	0.0058	0.0065	0.0074	0.0075	0.0081	0.0089	0.0097
39	0.0071	0.0052	0.0053	0.0059	0.0066	0.0071	0.0108	0.0130	0.0149	0.0171	0.0187
40	0.0029	0.0034	0.0038	0.0053	0.0057	0.0066	0.0073	0.0080	0.0085	0.0095	0.0099
Remark:											

Harmonics-EA5KSI											
Active power P/P _n [%]	0	10	20	30	40	50	60	70	80	90	100
Harmonic number	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
2	0.0101	0.0181	0.0196	0.0247	0.0249	0.0259	0.0290	0.0379	0.0390	0.0459	0.0446
3	0.0878	0.1023	0.1544	0.1187	0.1178	0.1205	0.1338	0.1517	0.1747	0.1969	0.2236
4	0.0197	0.0088	0.0144	0.0097	0.0096	0.0101	0.0095	0.0131	0.0108	0.0152	0.0149
5	0.0597	0.0512	0.0712	0.0615	0.0607	0.0648	0.0706	0.0799	0.0904	0.0986	0.1068
6	0.0069	0.0082	0.0100	0.0083	0.0084	0.0086	0.0096	0.0109	0.0111	0.0107	0.0102
7	0.0475	0.0201	0.0504	0.0469	0.0466	0.0465	0.0463	0.0469	0.0495	0.0549	0.0571
8	0.0065	0.0062	0.0066	0.0068	0.0068	0.0070	0.0072	0.0088	0.0094	0.0083	0.0087
9	0.0333	0.0519	0.0310	0.0421	0.0417	0.0411	0.0403	0.0402	0.0404	0.0426	0.0420
10	0.0047	0.0089	0.0055	0.0059	0.0059	0.0062	0.0064	0.0073	0.0068	0.0067	0.0080
11	0.0235	0.0420	0.0202	0.0372	0.0367	0.0367	0.0358	0.0364	0.0375	0.0381	0.0358
12	0.0045	0.0060	0.0064	0.0061	0.0062	0.0065	0.0070	0.0074	0.0070	0.0074	0.0078
13	0.0178	0.0187	0.0209	0.0330	0.0326	0.0334	0.0331	0.0343	0.0354	0.0353	0.0337
14	0.0043	0.0070	0.0067	0.0062	0.0065	0.0067	0.0066	0.0064	0.0067	0.0068	0.0075
15	0.0135	0.0172	0.0248	0.0294	0.0293	0.0317	0.0325	0.0334	0.0331	0.0343	0.0332
16	0.0041	0.0072	0.0068	0.0059	0.0061	0.0061	0.0062	0.0062	0.0064	0.0069	0.0072
17	0.0095	0.0211	0.0233	0.0262	0.0259	0.0296	0.0318	0.0325	0.0315	0.0317	0.0319
18	0.0041	0.0056	0.0070	0.0059	0.0063	0.0063	0.0063	0.0060	0.0066	0.0074	0.0074
19	0.0070	0.0171	0.0204	0.0238	0.0237	0.0273	0.0297	0.0295	0.0299	0.0307	0.0311
20	0.0042	0.0052	0.0062	0.0061	0.0062	0.0065	0.0063	0.0063	0.0068	0.0070	0.0071
21	0.0049	0.0088	0.0148	0.0217	0.0218	0.0266	0.0286	0.0283	0.0296	0.0308	0.0307
22	0.0044	0.0057	0.0060	0.0058	0.0059	0.0059	0.0065	0.0067	0.0068	0.0070	0.0071
23	0.0042	0.0104	0.0118	0.0204	0.0206	0.0246	0.0257	0.0265	0.0284	0.0300	0.0305
24	0.0048	0.0058	0.0061	0.0060	0.0061	0.0065	0.0065	0.0067	0.0068	0.0071	0.0071
25	0.0041	0.0089	0.0114	0.0185	0.0182	0.0217	0.0219	0.0240	0.0262	0.0273	0.0289
26	0.0047	0.0051	0.0057	0.0060	0.0061	0.0066	0.0066	0.0070	0.0069	0.0072	0.0072
27	0.0042	0.0060	0.0123	0.0164	0.0165	0.0196	0.0201	0.0234	0.0258	0.0266	0.0281
28	0.0045	0.0047	0.0055	0.0062	0.0063	0.0065	0.0067	0.0069	0.0071	0.0074	0.0076
29	0.0046	0.0071	0.0124	0.0149	0.0148	0.0162	0.0194	0.0223	0.0240	0.0266	0.0274
30	0.0043	0.0046	0.0053	0.0063	0.0066	0.0071	0.0074	0.0075	0.0074	0.0077	0.0078
31	0.0050	0.0076	0.0105	0.0116	0.0119	0.0130	0.0170	0.0203	0.0217	0.0238	0.0258
32	0.0042	0.0046	0.0052	0.0065	0.0066	0.0066	0.0073	0.0077	0.0076	0.0080	0.0084
33	0.0056	0.0064	0.0083	0.0097	0.0098	0.0115	0.0153	0.0179	0.0199	0.0216	0.0239
34	0.0034	0.0042	0.0049	0.0066	0.0064	0.0070	0.0077	0.0079	0.0081	0.0083	0.0087
35	0.0060	0.0062	0.0064	0.0081	0.0082	0.0103	0.0151	0.0170	0.0192	0.0210	0.0226
36	0.0030	0.0038	0.0048	0.0063	0.0063	0.0069	0.0073	0.0080	0.0086	0.0086	0.0096
37	0.0059	0.0058	0.0046	0.0068	0.0067	0.0088	0.0123	0.0147	0.0168	0.0182	0.0203
38	0.0029	0.0040	0.0041	0.0064	0.0063	0.0069	0.0077	0.0086	0.0095	0.0091	0.0108
39	0.0066	0.0052	0.0041	0.0069	0.0067	0.0093	0.0121	0.0139	0.0164	0.0181	0.0210
40	0.0031	0.0040	0.0037	0.0063	0.0061	0.0068	0.0079	0.0087	0.0094	0.0094	0.0113
Remark:											

Harmonics-EA6KSI											
Active power P/P _n [%]	0	10	20	30	40	50	60	70	80	90	100
Harmonic number	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
2	0.0093	0.0118	0.0177	0.0242	0.0232	0.0281	0.0296	0.0365	0.0377	0.0499	0.0560
3	0.0666	0.1217	0.1201	0.1254	0.1280	0.1451	0.1645	0.1865	0.2137	0.2519	0.2970
4	0.0059	0.0066	0.0075	0.0123	0.0098	0.0111	0.0098	0.0147	0.0133	0.0160	0.0166
5	0.0521	0.0551	0.0601	0.0618	0.0642	0.0712	0.0814	0.0915	0.1015	0.1166	0.1396
6	0.0043	0.0051	0.0062	0.0064	0.0079	0.0092	0.0079	0.0104	0.0102	0.0122	0.0120
7	0.0427	0.0119	0.0499	0.0476	0.0459	0.0449	0.0458	0.0487	0.0553	0.0623	0.0698
8	0.0039	0.0049	0.0053	0.0060	0.0067	0.0075	0.0069	0.0085	0.0097	0.0086	0.0092
9	0.0269	0.0344	0.0387	0.0426	0.0409	0.0390	0.0380	0.0376	0.0405	0.0431	0.0464
10	0.0040	0.0049	0.0053	0.0058	0.0064	0.0064	0.0063	0.0068	0.0081	0.0085	0.0084
11	0.0197	0.0427	0.0294	0.0369	0.0362	0.0348	0.0345	0.0348	0.0354	0.0363	0.0379
12	0.0041	0.0050	0.0052	0.0053	0.0059	0.0060	0.0064	0.0075	0.0079	0.0075	0.0074
13	0.0140	0.0320	0.0218	0.0321	0.0328	0.0315	0.0313	0.0333	0.0334	0.0331	0.0332
14	0.0040	0.0051	0.0052	0.0054	0.0057	0.0058	0.0063	0.0069	0.0072	0.0070	0.0073
15	0.0103	0.0161	0.0179	0.0288	0.0306	0.0310	0.0318	0.0321	0.0320	0.0325	0.0324
16	0.0040	0.0053	0.0052	0.0055	0.0057	0.0061	0.0060	0.0068	0.0072	0.0070	0.0069
17	0.0070	0.0159	0.0151	0.0240	0.0276	0.0293	0.0306	0.0303	0.0306	0.0308	0.0316
18	0.0039	0.0051	0.0052	0.0055	0.0057	0.0062	0.0060	0.0064	0.0070	0.0067	0.0069
19	0.0050	0.0192	0.0155	0.0220	0.0258	0.0282	0.0296	0.0281	0.0290	0.0299	0.0303
20	0.0041	0.0051	0.0055	0.0058	0.0060	0.0063	0.0062	0.0067	0.0069	0.0071	0.0067
21	0.0044	0.0133	0.0161	0.0199	0.0241	0.0276	0.0280	0.0282	0.0293	0.0302	0.0308
22	0.0041	0.0052	0.0053	0.0055	0.0059	0.0061	0.0064	0.0069	0.0067	0.0070	0.0070
23	0.0045	0.0081	0.0157	0.0177	0.0234	0.0259	0.0258	0.0271	0.0290	0.0297	0.0303
24	0.0044	0.0054	0.0052	0.0055	0.0061	0.0064	0.0069	0.0070	0.0072	0.0072	0.0075
25	0.0057	0.0090	0.0147	0.0167	0.0212	0.0233	0.0233	0.0258	0.0279	0.0292	0.0296
26	0.0044	0.0052	0.0053	0.0057	0.0062	0.0066	0.0066	0.0068	0.0069	0.0075	0.0072
27	0.0057	0.0100	0.0142	0.0153	0.0199	0.0210	0.0218	0.0245	0.0264	0.0281	0.0291
28	0.0042	0.0049	0.0053	0.0061	0.0065	0.0071	0.0068	0.0073	0.0074	0.0079	0.0076
29	0.0063	0.0080	0.0132	0.0138	0.0177	0.0186	0.0213	0.0242	0.0264	0.0283	0.0286
30	0.0040	0.0045	0.0056	0.0061	0.0068	0.0069	0.0072	0.0075	0.0076	0.0084	0.0077
31	0.0062	0.0071	0.0116	0.0116	0.0146	0.0163	0.0197	0.0231	0.0249	0.0270	0.0273
32	0.0037	0.0043	0.0055	0.0060	0.0068	0.0071	0.0074	0.0080	0.0081	0.0087	0.0081
33	0.0065	0.0078	0.0101	0.0092	0.0121	0.0141	0.0183	0.0199	0.0223	0.0241	0.0256
34	0.0033	0.0039	0.0056	0.0062	0.0070	0.0070	0.0076	0.0079	0.0086	0.0088	0.0084
35	0.0065	0.0070	0.0083	0.0077	0.0101	0.0137	0.0171	0.0191	0.0215	0.0230	0.0242
36	0.0031	0.0038	0.0056	0.0057	0.0066	0.0073	0.0079	0.0082	0.0086	0.0097	0.0090
37	0.0057	0.0045	0.0062	0.0062	0.0079	0.0122	0.0150	0.0170	0.0198	0.0215	0.0215
38	0.0029	0.0034	0.0054	0.0055	0.0066	0.0076	0.0083	0.0093	0.0094	0.0104	0.0095
39	0.0063	0.0039	0.0056	0.0061	0.0081	0.0120	0.0152	0.0171	0.0189	0.0222	0.0225
40	0.0033	0.0034	0.0052	0.0054	0.0065	0.0077	0.0085	0.0095	0.0098	0.0112	0.0102
Remark:											

Intern-harmonics-EA2KSI											
Active power P/Pn [%]	0	10	20	30	40	50	60	70	80	90	100
Frequency [Hz]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
75	0.0223	0.0228	0.0322	0.0430	0.0502	0.0584	0.0720	0.0785	0.0858	0.0964	0.1062
125	0.0100	0.0097	0.0134	0.0194	0.0244	0.0284	0.0316	0.0342	0.0372	0.0407	0.0443
175	0.0086	0.0089	0.0100	0.0121	0.0123	0.0130	0.0152	0.0169	0.0185	0.0213	0.0236
225	0.0083	0.0081	0.0085	0.0097	0.0119	0.0150	0.0174	0.0192	0.0211	0.0228	0.0246
275	0.0084	0.0064	0.0083	0.0090	0.0099	0.0102	0.0103	0.0110	0.0113	0.0122	0.0130
325	0.0081	0.0079	0.0101	0.0107	0.0105	0.0120	0.0141	0.0160	0.0170	0.0183	0.0193
375	0.0081	0.0079	0.0091	0.0097	0.0102	0.0109	0.0109	0.0110	0.0111	0.0117	0.0121
425	0.0068	0.0064	0.0086	0.0101	0.0097	0.0094	0.0108	0.0125	0.0135	0.0145	0.0156
475	0.0067	0.0061	0.0077	0.0084	0.0084	0.0090	0.0092	0.0093	0.0097	0.0096	0.0097
525	0.0064	0.0056	0.0071	0.0093	0.0098	0.0094	0.0094	0.0103	0.0115	0.0125	0.0131
575	0.0066	0.0055	0.0071	0.0080	0.0081	0.0085	0.0085	0.0086	0.0090	0.0088	0.0091
625	0.0064	0.0055	0.0078	0.0081	0.0096	0.0097	0.0090	0.0094	0.0102	0.0109	0.0119
675	0.0066	0.0054	0.0072	0.0082	0.0084	0.0085	0.0083	0.0084	0.0088	0.0087	0.0088
725	0.0065	0.0055	0.0077	0.0082	0.0089	0.0099	0.0089	0.0092	0.0097	0.0103	0.0109
775	0.0065	0.0053	0.0073	0.0081	0.0085	0.0087	0.0081	0.0085	0.0087	0.0087	0.0088
825	0.0066	0.0054	0.0072	0.0085	0.0085	0.0095	0.0089	0.0091	0.0093	0.0098	0.0102
875	0.0065	0.0055	0.0073	0.0081	0.0083	0.0089	0.0080	0.0084	0.0085	0.0087	0.0086
925	0.0066	0.0054	0.0073	0.0085	0.0083	0.0091	0.0089	0.0091	0.0093	0.0096	0.0098
975	0.0067	0.0055	0.0072	0.0083	0.0083	0.0090	0.0081	0.0084	0.0086	0.0087	0.0088
1025	0.0066	0.0056	0.0073	0.0082	0.0086	0.0088	0.0087	0.0091	0.0091	0.0092	0.0095
1075	0.0067	0.0055	0.0072	0.0082	0.0084	0.0090	0.0085	0.0085	0.0085	0.0088	0.0088
1125	0.0065	0.0054	0.0072	0.0081	0.0085	0.0089	0.0085	0.0089	0.0091	0.0093	0.0094
1175	0.0064	0.0053	0.0070	0.0080	0.0082	0.0087	0.0084	0.0084	0.0086	0.0089	0.0092
1225	0.0063	0.0053	0.0070	0.0082	0.0082	0.0086	0.0084	0.0087	0.0089	0.0091	0.0094
1275	0.0064	0.0052	0.0068	0.0079	0.0079	0.0084	0.0084	0.0085	0.0086	0.0090	0.0092
1325	0.0062	0.0052	0.0066	0.0078	0.0078	0.0084	0.0085	0.0086	0.0090	0.0090	0.0094
1375	0.0062	0.0051	0.0066	0.0075	0.0076	0.0081	0.0082	0.0086	0.0087	0.0090	0.0092
1425	0.0060	0.0050	0.0066	0.0074	0.0074	0.0081	0.0083	0.0087	0.0090	0.0092	0.0093
1475	0.0059	0.0050	0.0063	0.0072	0.0072	0.0077	0.0084	0.0086	0.0088	0.0092	0.0092
1525	0.0058	0.0049	0.0062	0.0070	0.0069	0.0074	0.0084	0.0087	0.0090	0.0093	0.0095
1575	0.0056	0.0048	0.0061	0.0067	0.0067	0.0073	0.0083	0.0088	0.0088	0.0092	0.0093
1625	0.0054	0.0047	0.0059	0.0066	0.0066	0.0070	0.0084	0.0087	0.0090	0.0092	0.0095
1675	0.0052	0.0046	0.0057	0.0063	0.0063	0.0068	0.0083	0.0084	0.0088	0.0090	0.0093
1725	0.0051	0.0044	0.0057	0.0061	0.0062	0.0066	0.0082	0.0085	0.0088	0.0091	0.0094
1775	0.0049	0.0043	0.0054	0.0059	0.0060	0.0063	0.0082	0.0083	0.0087	0.0088	0.0092
1825	0.0048	0.0043	0.0052	0.0057	0.0057	0.0061	0.0081	0.0084	0.0087	0.0088	0.0093
1875	0.0049	0.0044	0.0050	0.0055	0.0054	0.0058	0.0079	0.0081	0.0085	0.0088	0.0092
1925	0.0047	0.0043	0.0049	0.0052	0.0054	0.0056	0.0080	0.0082	0.0084	0.0090	0.0091
1975	0.0047	0.0043	0.0048	0.0050	0.0051	0.0054	0.0078	0.0079	0.0083	0.0087	0.0091
Remark:											

Intern-harmonics-EA2.5KSI											
Active power P/Pn [%]	0	10	20	30	40	50	60	70	80	90	100
Frequency [Hz]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
75	0.0262	0.0271	0.0336	0.0486	0.0576	0.0712	0.0836	0.0930	0.1066	0.1159	0.1289
125	0.0102	0.0106	0.0157	0.0233	0.0284	0.0330	0.0374	0.0397	0.0447	0.0474	0.0523
175	0.0093	0.0096	0.0102	0.0116	0.0128	0.0149	0.0176	0.0205	0.0233	0.0249	0.0286
225	0.0084	0.0086	0.0088	0.0111	0.0148	0.0178	0.0200	0.0224	0.0240	0.0261	0.0285
275	0.0083	0.0082	0.0085	0.0095	0.0102	0.0103	0.0112	0.0116	0.0137	0.0145	0.0160
325	0.0083	0.0088	0.0107	0.0105	0.0119	0.0143	0.0162	0.0178	0.0200	0.0209	0.0222
375	0.0080	0.0087	0.0095	0.0100	0.0111	0.0110	0.0114	0.0113	0.0120	0.0130	0.0138
425	0.0066	0.0069	0.0095	0.0102	0.0098	0.0113	0.0129	0.0142	0.0155	0.0167	0.0179
475	0.0069	0.0066	0.0081	0.0085	0.0093	0.0094	0.0096	0.0092	0.0098	0.0102	0.0107
525	0.0065	0.0069	0.0082	0.0099	0.0096	0.0096	0.0110	0.0119	0.0132	0.0144	0.0154
575	0.0064	0.0061	0.0079	0.0082	0.0086	0.0085	0.0087	0.0088	0.0093	0.0093	0.0094
625	0.0065	0.0063	0.0077	0.0092	0.0097	0.0091	0.0100	0.0109	0.0121	0.0131	0.0136
675	0.0065	0.0060	0.0077	0.0084	0.0085	0.0083	0.0084	0.0085	0.0087	0.0092	0.0092
725	0.0065	0.0062	0.0083	0.0086	0.0099	0.0090	0.0093	0.0102	0.0109	0.0119	0.0125
775	0.0067	0.0060	0.0077	0.0084	0.0087	0.0082	0.0083	0.0084	0.0087	0.0091	0.0091
825	0.0066	0.0061	0.0080	0.0084	0.0095	0.0089	0.0090	0.0094	0.0102	0.0111	0.0118
875	0.0066	0.0061	0.0077	0.0081	0.0088	0.0081	0.0084	0.0086	0.0090	0.0092	0.0091
925	0.0066	0.0061	0.0077	0.0085	0.0091	0.0088	0.0091	0.0092	0.0097	0.0105	0.0108
975	0.0066	0.0060	0.0077	0.0083	0.0087	0.0083	0.0085	0.0086	0.0089	0.0092	0.0093
1025	0.0066	0.0060	0.0077	0.0086	0.0088	0.0088	0.0089	0.0091	0.0096	0.0101	0.0105
1075	0.0066	0.0061	0.0076	0.0084	0.0087	0.0083	0.0084	0.0088	0.0089	0.0092	0.0094
1125	0.0065	0.0061	0.0077	0.0084	0.0087	0.0088	0.0089	0.0091	0.0093	0.0097	0.0103
1175	0.0065	0.0060	0.0077	0.0084	0.0086	0.0085	0.0086	0.0089	0.0091	0.0092	0.0096
1225	0.0064	0.0060	0.0077	0.0082	0.0087	0.0087	0.0090	0.0092	0.0094	0.0098	0.0103
1275	0.0064	0.0060	0.0073	0.0082	0.0084	0.0085	0.0087	0.0091	0.0091	0.0095	0.0098
1325	0.0063	0.0058	0.0072	0.0078	0.0083	0.0085	0.0088	0.0094	0.0094	0.0098	0.0102
1375	0.0062	0.0059	0.0071	0.0077	0.0081	0.0084	0.0087	0.0091	0.0091	0.0095	0.0101
1425	0.0059	0.0057	0.0069	0.0075	0.0080	0.0083	0.0090	0.0092	0.0095	0.0097	0.0104
1475	0.0058	0.0055	0.0068	0.0074	0.0076	0.0084	0.0087	0.0089	0.0094	0.0096	0.0102
1525	0.0056	0.0054	0.0066	0.0071	0.0076	0.0085	0.0088	0.0091	0.0095	0.0098	0.0104
1575	0.0056	0.0053	0.0063	0.0069	0.0073	0.0084	0.0088	0.0090	0.0092	0.0097	0.0102
1625	0.0054	0.0051	0.0062	0.0067	0.0069	0.0084	0.0087	0.0088	0.0095	0.0100	0.0104
1675	0.0053	0.0050	0.0060	0.0064	0.0066	0.0082	0.0086	0.0089	0.0093	0.0098	0.0101
1725	0.0051	0.0048	0.0058	0.0062	0.0064	0.0082	0.0087	0.0090	0.0093	0.0099	0.0104
1775	0.0049	0.0047	0.0056	0.0059	0.0061	0.0081	0.0085	0.0088	0.0093	0.0098	0.0102
1825	0.0049	0.0046	0.0054	0.0057	0.0060	0.0081	0.0086	0.0088	0.0094	0.0098	0.0104
1875	0.0046	0.0045	0.0052	0.0055	0.0058	0.0080	0.0082	0.0087	0.0094	0.0099	0.0103
1925	0.0045	0.0045	0.0050	0.0053	0.0056	0.0080	0.0083	0.0087	0.0093	0.0098	0.0104
1975	0.0044	0.0042	0.0048	0.0051	0.0054	0.0077	0.0081	0.0085	0.0093	0.0097	0.0102
Remark:											

Intern-harmonics-EA3KSI											
Active power P/Pn [%]	0	10	20	30	40	50	60	70	80	90	100
Frequency [Hz]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
75	0.0248	0.0291	0.0419	0.0504	0.0691	0.0803	0.0915	0.1039	0.1171	0.1305	0.1430
125	0.0105	0.0125	0.0195	0.0262	0.0319	0.0353	0.0395	0.0442	0.0490	0.0543	0.0568
175	0.0087	0.0097	0.0110	0.0120	0.0149	0.0179	0.0206	0.0243	0.0278	0.0311	0.0323
225	0.0082	0.0090	0.0093	0.0129	0.0172	0.0198	0.0223	0.0248	0.0276	0.0295	0.0312
275	0.0080	0.0077	0.0085	0.0097	0.0103	0.0112	0.0120	0.0134	0.0156	0.0171	0.0181
325	0.0083	0.0093	0.0106	0.0105	0.0137	0.0162	0.0180	0.0196	0.0216	0.0232	0.0244
375	0.0083	0.0084	0.0096	0.0106	0.0109	0.0110	0.0117	0.0124	0.0131	0.0140	0.0147
425	0.0068	0.0070	0.0100	0.0094	0.0106	0.0128	0.0144	0.0156	0.0170	0.0183	0.0193
475	0.0068	0.0071	0.0083	0.0086	0.0091	0.0092	0.0096	0.0096	0.0104	0.0109	0.0109
525	0.0065	0.0070	0.0091	0.0095	0.0094	0.0107	0.0123	0.0134	0.0148	0.0159	0.0165
575	0.0065	0.0066	0.0080	0.0080	0.0084	0.0086	0.0091	0.0089	0.0094	0.0098	0.0099
625	0.0065	0.0069	0.0080	0.0097	0.0090	0.0096	0.0111	0.0122	0.0135	0.0143	0.0148
675	0.0065	0.0066	0.0081	0.0083	0.0082	0.0086	0.0090	0.0089	0.0090	0.0092	0.0093
725	0.0066	0.0066	0.0080	0.0094	0.0089	0.0093	0.0104	0.0111	0.0123	0.0130	0.0134
775	0.0066	0.0066	0.0079	0.0086	0.0082	0.0084	0.0092	0.0089	0.0090	0.0093	0.0095
825	0.0065	0.0069	0.0085	0.0090	0.0090	0.0093	0.0102	0.0107	0.0112	0.0119	0.0124
875	0.0066	0.0067	0.0081	0.0089	0.0084	0.0089	0.0092	0.0093	0.0091	0.0095	0.0095
925	0.0065	0.0068	0.0086	0.0090	0.0092	0.0094	0.0099	0.0103	0.0108	0.0116	0.0118
975	0.0065	0.0068	0.0086	0.0091	0.0088	0.0089	0.0091	0.0094	0.0093	0.0094	0.0097
1025	0.0064	0.0067	0.0084	0.0091	0.0091	0.0093	0.0094	0.0099	0.0106	0.0110	0.0114
1075	0.0065	0.0067	0.0084	0.0088	0.0087	0.0086	0.0089	0.0091	0.0093	0.0097	0.0098
1125	0.0064	0.0066	0.0084	0.0087	0.0088	0.0090	0.0092	0.0096	0.0102	0.0108	0.0110
1175	0.0064	0.0065	0.0081	0.0085	0.0085	0.0085	0.0088	0.0090	0.0096	0.0100	0.0099
1225	0.0063	0.0064	0.0080	0.0084	0.0084	0.0088	0.0092	0.0096	0.0102	0.0106	0.0107
1275	0.0062	0.0063	0.0079	0.0083	0.0085	0.0088	0.0089	0.0092	0.0096	0.0101	0.0100
1325	0.0062	0.0063	0.0078	0.0080	0.0085	0.0086	0.0093	0.0095	0.0100	0.0106	0.0105
1375	0.0061	0.0061	0.0075	0.0078	0.0084	0.0086	0.0090	0.0092	0.0098	0.0103	0.0102
1425	0.0060	0.0060	0.0074	0.0077	0.0084	0.0090	0.0092	0.0095	0.0102	0.0105	0.0105
1475	0.0058	0.0059	0.0072	0.0075	0.0083	0.0086	0.0090	0.0093	0.0098	0.0103	0.0104
1525	0.0057	0.0057	0.0069	0.0073	0.0084	0.0089	0.0093	0.0095	0.0101	0.0105	0.0107
1575	0.0054	0.0055	0.0067	0.0070	0.0084	0.0087	0.0091	0.0095	0.0099	0.0106	0.0106
1625	0.0054	0.0055	0.0064	0.0069	0.0084	0.0087	0.0092	0.0097	0.0102	0.0105	0.0108
1675	0.0052	0.0053	0.0061	0.0065	0.0083	0.0086	0.0091	0.0095	0.0100	0.0106	0.0108
1725	0.0050	0.0052	0.0061	0.0064	0.0084	0.0088	0.0093	0.0098	0.0102	0.0108	0.0110
1775	0.0049	0.0050	0.0058	0.0062	0.0084	0.0089	0.0093	0.0098	0.0101	0.0108	0.0110
1825	0.0047	0.0048	0.0057	0.0060	0.0086	0.0090	0.0095	0.0100	0.0104	0.0110	0.0111
1875	0.0046	0.0048	0.0054	0.0058	0.0083	0.0090	0.0092	0.0101	0.0104	0.0111	0.0111
1925	0.0045	0.0045	0.0053	0.0056	0.0083	0.0090	0.0094	0.0100	0.0103	0.0110	0.0112
1975	0.0043	0.0044	0.0050	0.0053	0.0080	0.0085	0.0095	0.0099	0.0103	0.0112	0.0113
Remark:											

Intern-harmonics-EA3KSI-D											
Active power P/Pn [%]	0	10	20	30	40	50	60	70	80	90	100
Frequency [Hz]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
75	0.0244	0.0301	0.0407	0.0564	0.0691	0.0831	0.0980	0.1098	0.1256	0.1401	0.1534
125	0.0099	0.0122	0.0187	0.0263	0.0325	0.0364	0.0413	0.0451	0.0508	0.0558	0.0610
175	0.0083	0.0106	0.0120	0.0129	0.0147	0.0183	0.0215	0.0241	0.0281	0.0312	0.0344
225	0.0079	0.0098	0.0098	0.0141	0.0174	0.0201	0.0230	0.0253	0.0279	0.0298	0.0326
275	0.0074	0.0078	0.0093	0.0096	0.0096	0.0110	0.0123	0.0137	0.0165	0.0172	0.0188
325	0.0078	0.0104	0.0110	0.0106	0.0137	0.0164	0.0181	0.0196	0.0219	0.0233	0.0251
375	0.0077	0.0091	0.0093	0.0102	0.0100	0.0104	0.0116	0.0123	0.0139	0.0145	0.0154
425	0.0066	0.0076	0.0106	0.0093	0.0107	0.0128	0.0148	0.0159	0.0177	0.0187	0.0198
475	0.0066	0.0080	0.0084	0.0087	0.0089	0.0093	0.0095	0.0100	0.0108	0.0110	0.0115
525	0.0065	0.0081	0.0093	0.0093	0.0092	0.0108	0.0126	0.0137	0.0153	0.0160	0.0170
575	0.0064	0.0075	0.0084	0.0081	0.0084	0.0085	0.0090	0.0090	0.0094	0.0098	0.0102
625	0.0064	0.0078	0.0081	0.0097	0.0088	0.0099	0.0114	0.0124	0.0137	0.0145	0.0153
675	0.0063	0.0077	0.0081	0.0083	0.0081	0.0083	0.0087	0.0090	0.0092	0.0093	0.0095
725	0.0064	0.0074	0.0082	0.0094	0.0088	0.0092	0.0103	0.0114	0.0125	0.0134	0.0139
775	0.0064	0.0074	0.0080	0.0085	0.0082	0.0083	0.0088	0.0089	0.0093	0.0093	0.0094
825	0.0064	0.0077	0.0086	0.0089	0.0090	0.0091	0.0099	0.0107	0.0116	0.0122	0.0129
875	0.0065	0.0075	0.0083	0.0086	0.0082	0.0083	0.0086	0.0090	0.0095	0.0095	0.0095
925	0.0066	0.0078	0.0087	0.0088	0.0089	0.0089	0.0094	0.0101	0.0110	0.0115	0.0119
975	0.0065	0.0078	0.0085	0.0085	0.0082	0.0082	0.0088	0.0089	0.0095	0.0094	0.0098
1025	0.0065	0.0075	0.0084	0.0085	0.0086	0.0088	0.0094	0.0099	0.0106	0.0109	0.0117
1075	0.0064	0.0076	0.0081	0.0085	0.0083	0.0084	0.0087	0.0090	0.0095	0.0098	0.0098
1125	0.0064	0.0075	0.0081	0.0085	0.0085	0.0088	0.0091	0.0097	0.0104	0.0108	0.0114
1175	0.0063	0.0074	0.0079	0.0083	0.0082	0.0083	0.0088	0.0090	0.0095	0.0098	0.0103
1225	0.0062	0.0072	0.0081	0.0083	0.0084	0.0088	0.0090	0.0096	0.0101	0.0107	0.0114
1275	0.0061	0.0073	0.0078	0.0082	0.0082	0.0086	0.0088	0.0091	0.0096	0.0102	0.0104
1325	0.0060	0.0070	0.0076	0.0080	0.0083	0.0087	0.0091	0.0094	0.0100	0.0107	0.0112
1375	0.0059	0.0069	0.0075	0.0079	0.0084	0.0085	0.0089	0.0093	0.0097	0.0104	0.0109
1425	0.0059	0.0067	0.0074	0.0076	0.0083	0.0088	0.0094	0.0097	0.0101	0.0108	0.0110
1475	0.0057	0.0065	0.0071	0.0074	0.0083	0.0084	0.0091	0.0095	0.0099	0.0105	0.0108
1525	0.0056	0.0064	0.0068	0.0073	0.0083	0.0085	0.0094	0.0097	0.0102	0.0107	0.0110
1575	0.0055	0.0062	0.0067	0.0071	0.0083	0.0084	0.0092	0.0095	0.0102	0.0105	0.0108
1625	0.0053	0.0060	0.0065	0.0068	0.0084	0.0086	0.0093	0.0098	0.0102	0.0107	0.0111
1675	0.0050	0.0057	0.0061	0.0065	0.0082	0.0084	0.0091	0.0094	0.0102	0.0107	0.0113
1725	0.0049	0.0055	0.0060	0.0062	0.0084	0.0084	0.0091	0.0099	0.0105	0.0108	0.0112
1775	0.0047	0.0054	0.0057	0.0060	0.0082	0.0083	0.0089	0.0096	0.0104	0.0107	0.0112
1825	0.0047	0.0053	0.0056	0.0059	0.0082	0.0082	0.0091	0.0098	0.0105	0.0108	0.0112
1875	0.0047	0.0052	0.0055	0.0057	0.0079	0.0082	0.0088	0.0096	0.0109	0.0110	0.0114
1925	0.0047	0.0051	0.0054	0.0056	0.0078	0.0082	0.0088	0.0099	0.0104	0.0115	0.0113
1975	0.0047	0.0051	0.0054	0.0054	0.0076	0.0080	0.0089	0.0098	0.0104	0.0110	0.0117
Remark:											

Intern-harmonics-EA3.68KSI											
Active power P/Pn [%]	0	10	20	30	40	50	60	70	80	90	100
Frequency [Hz]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
75	0.0256	0.0317	0.0465	0.0614	0.0804	0.1119	0.1122	0.1291	0.1463	0.1631	0.1757
125	0.0105	0.0135	0.0226	0.0300	0.0354	0.0462	0.0463	0.0523	0.0593	0.0637	0.0700
175	0.0089	0.0096	0.0116	0.0136	0.0175	0.0250	0.0252	0.0292	0.0330	0.0363	0.0408
225	0.0079	0.0086	0.0110	0.0164	0.0197	0.0256	0.0257	0.0287	0.0318	0.0340	0.0375
275	0.0077	0.0083	0.0094	0.0101	0.0106	0.0148	0.0150	0.0169	0.0191	0.0200	0.0234
325	0.0082	0.0099	0.0105	0.0128	0.0159	0.0204	0.0205	0.0227	0.0250	0.0261	0.0292
375	0.0083	0.0086	0.0099	0.0108	0.0109	0.0132	0.0131	0.0137	0.0159	0.0168	0.0192
425	0.0068	0.0077	0.0101	0.0101	0.0125	0.0164	0.0164	0.0178	0.0197	0.0210	0.0232
475	0.0069	0.0075	0.0083	0.0092	0.0092	0.0106	0.0101	0.0107	0.0115	0.0125	0.0143
525	0.0065	0.0070	0.0097	0.0093	0.0106	0.0142	0.0140	0.0152	0.0168	0.0176	0.0196
575	0.0065	0.0068	0.0083	0.0085	0.0087	0.0095	0.0092	0.0098	0.0101	0.0104	0.0120
625	0.0066	0.0074	0.0090	0.0095	0.0098	0.0129	0.0125	0.0139	0.0149	0.0157	0.0171
675	0.0065	0.0070	0.0083	0.0086	0.0086	0.0092	0.0093	0.0094	0.0098	0.0100	0.0107
725	0.0065	0.0072	0.0084	0.0097	0.0095	0.0121	0.0117	0.0128	0.0137	0.0144	0.0155
775	0.0065	0.0071	0.0084	0.0089	0.0086	0.0091	0.0093	0.0094	0.0098	0.0097	0.0103
825	0.0066	0.0070	0.0085	0.0101	0.0092	0.0112	0.0111	0.0121	0.0130	0.0134	0.0146
875	0.0065	0.0070	0.0085	0.0092	0.0086	0.0092	0.0095	0.0097	0.0099	0.0099	0.0104
925	0.0065	0.0074	0.0090	0.0099	0.0092	0.0105	0.0105	0.0114	0.0124	0.0128	0.0138
975	0.0065	0.0074	0.0088	0.0092	0.0085	0.0091	0.0093	0.0098	0.0101	0.0100	0.0107
1025	0.0065	0.0074	0.0092	0.0094	0.0089	0.0098	0.0100	0.0108	0.0118	0.0123	0.0132
1075	0.0064	0.0073	0.0087	0.0091	0.0086	0.0093	0.0092	0.0096	0.0102	0.0101	0.0109
1125	0.0065	0.0072	0.0085	0.0089	0.0090	0.0098	0.0099	0.0106	0.0114	0.0117	0.0125
1175	0.0064	0.0069	0.0082	0.0087	0.0086	0.0094	0.0093	0.0096	0.0103	0.0105	0.0110
1225	0.0062	0.0069	0.0081	0.0090	0.0088	0.0097	0.0097	0.0103	0.0110	0.0115	0.0124
1275	0.0061	0.0067	0.0080	0.0086	0.0086	0.0094	0.0093	0.0096	0.0103	0.0108	0.0110
1325	0.0061	0.0068	0.0080	0.0084	0.0089	0.0097	0.0098	0.0103	0.0109	0.0114	0.0120
1375	0.0060	0.0065	0.0076	0.0083	0.0086	0.0094	0.0094	0.0098	0.0104	0.0109	0.0113
1425	0.0058	0.0063	0.0075	0.0081	0.0087	0.0098	0.0098	0.0102	0.0107	0.0114	0.0121
1475	0.0056	0.0062	0.0073	0.0078	0.0088	0.0097	0.0096	0.0100	0.0106	0.0111	0.0115
1525	0.0056	0.0061	0.0070	0.0077	0.0087	0.0097	0.0100	0.0102	0.0108	0.0114	0.0121
1575	0.0055	0.0059	0.0068	0.0074	0.0087	0.0097	0.0097	0.0103	0.0108	0.0114	0.0117
1625	0.0054	0.0058	0.0067	0.0072	0.0088	0.0101	0.0100	0.0104	0.0111	0.0115	0.0120
1675	0.0051	0.0055	0.0063	0.0069	0.0086	0.0098	0.0099	0.0105	0.0110	0.0114	0.0120
1725	0.0050	0.0055	0.0062	0.0068	0.0088	0.0100	0.0101	0.0107	0.0114	0.0115	0.0121
1775	0.0048	0.0053	0.0060	0.0065	0.0086	0.0100	0.0101	0.0110	0.0115	0.0118	0.0123
1825	0.0047	0.0052	0.0060	0.0064	0.0089	0.0101	0.0102	0.0110	0.0118	0.0118	0.0124
1875	0.0046	0.0050	0.0058	0.0061	0.0086	0.0103	0.0104	0.0114	0.0118	0.0120	0.0130
1925	0.0044	0.0049	0.0056	0.0060	0.0088	0.0103	0.0102	0.0114	0.0122	0.0119	0.0128
1975	0.0043	0.0046	0.0052	0.0055	0.0084	0.0097	0.0100	0.0110	0.0121	0.0123	0.0132
Remark:											

Intern-harmonics-EA4KSI											
Active power P/Pn [%]	0	10	20	30	40	50	60	70	80	90	100
Frequency [Hz]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
75	0.0226	0.0301	0.0621	0.0798	0.0833	0.0996	0.1160	0.1332	0.1524	0.1735	0.1913
125	0.0098	0.0137	0.0183	0.0332	0.0375	0.0431	0.0494	0.0549	0.0625	0.0704	0.0735
175	0.0085	0.0096	0.0105	0.0153	0.0188	0.0234	0.0276	0.0316	0.0363	0.0410	0.0434
225	0.0076	0.0086	0.0154	0.0175	0.0207	0.0243	0.0275	0.0305	0.0341	0.0368	0.0401
275	0.0074	0.0084	0.0145	0.0103	0.0120	0.0137	0.0160	0.0178	0.0205	0.0227	0.0242
325	0.0081	0.0100	0.0100	0.0139	0.0171	0.0195	0.0218	0.0238	0.0263	0.0283	0.0306
375	0.0080	0.0087	0.0119	0.0109	0.0112	0.0126	0.0139	0.0152	0.0169	0.0186	0.0196
425	0.0064	0.0083	0.0130	0.0107	0.0136	0.0156	0.0173	0.0190	0.0208	0.0224	0.0239
475	0.0064	0.0076	0.0087	0.0094	0.0092	0.0100	0.0109	0.0116	0.0128	0.0138	0.0145
525	0.0061	0.0070	0.0111	0.0094	0.0113	0.0134	0.0151	0.0163	0.0181	0.0192	0.0205
575	0.0062	0.0069	0.0066	0.0086	0.0090	0.0090	0.0096	0.0104	0.0111	0.0116	0.0125
625	0.0062	0.0076	0.0117	0.0090	0.0103	0.0121	0.0135	0.0146	0.0162	0.0173	0.0182
675	0.0063	0.0071	0.0116	0.0083	0.0088	0.0089	0.0091	0.0100	0.0106	0.0107	0.0116
725	0.0063	0.0075	0.0097	0.0092	0.0099	0.0109	0.0124	0.0134	0.0148	0.0157	0.0165
775	0.0062	0.0070	0.0081	0.0081	0.0086	0.0092	0.0091	0.0098	0.0099	0.0104	0.0111
825	0.0064	0.0071	0.0091	0.0091	0.0095	0.0104	0.0115	0.0125	0.0135	0.0148	0.0153
875	0.0063	0.0070	0.0085	0.0082	0.0087	0.0092	0.0094	0.0099	0.0098	0.0107	0.0108
925	0.0063	0.0071	0.0072	0.0090	0.0091	0.0100	0.0107	0.0118	0.0126	0.0141	0.0145
975	0.0064	0.0071	0.0084	0.0084	0.0086	0.0090	0.0095	0.0101	0.0101	0.0111	0.0109
1025	0.0064	0.0072	0.0085	0.0088	0.0092	0.0098	0.0106	0.0116	0.0123	0.0132	0.0137
1075	0.0063	0.0071	0.0067	0.0085	0.0087	0.0093	0.0097	0.0102	0.0104	0.0108	0.0110
1125	0.0063	0.0070	0.0087	0.0085	0.0091	0.0095	0.0102	0.0114	0.0117	0.0127	0.0131
1175	0.0063	0.0069	0.0110	0.0085	0.0089	0.0092	0.0097	0.0102	0.0107	0.0111	0.0109
1225	0.0063	0.0068	0.0136	0.0086	0.0091	0.0095	0.0102	0.0110	0.0116	0.0120	0.0127
1275	0.0062	0.0066	0.0056	0.0084	0.0089	0.0094	0.0100	0.0104	0.0111	0.0109	0.0114
1325	0.0061	0.0066	0.0069	0.0084	0.0091	0.0095	0.0102	0.0109	0.0116	0.0121	0.0126
1375	0.0060	0.0064	0.0070	0.0085	0.0090	0.0093	0.0098	0.0105	0.0113	0.0113	0.0116
1425	0.0058	0.0064	0.0064	0.0084	0.0091	0.0098	0.0104	0.0109	0.0120	0.0120	0.0126
1475	0.0057	0.0062	0.0104	0.0084	0.0091	0.0095	0.0102	0.0108	0.0120	0.0117	0.0123
1525	0.0056	0.0060	0.0091	0.0086	0.0091	0.0099	0.0105	0.0112	0.0119	0.0118	0.0124
1575	0.0054	0.0059	0.0076	0.0084	0.0091	0.0096	0.0107	0.0117	0.0119	0.0118	0.0126
1625	0.0053	0.0056	0.0058	0.0083	0.0092	0.0101	0.0109	0.0112	0.0121	0.0123	0.0125
1675	0.0051	0.0054	0.0054	0.0084	0.0090	0.0100	0.0108	0.0112	0.0122	0.0124	0.0128
1725	0.0050	0.0053	0.0071	0.0083	0.0094	0.0098	0.0107	0.0113	0.0120	0.0126	0.0130
1775	0.0049	0.0052	0.0062	0.0081	0.0092	0.0098	0.0106	0.0114	0.0123	0.0135	0.0135
1825	0.0048	0.0050	0.0067	0.0082	0.0092	0.0097	0.0107	0.0116	0.0121	0.0137	0.0133
1875	0.0045	0.0049	0.0056	0.0080	0.0088	0.0099	0.0107	0.0118	0.0124	0.0143	0.0140
1925	0.0044	0.0048	0.0048	0.0080	0.0090	0.0099	0.0109	0.0121	0.0122	0.0142	0.0140
1975	0.0042	0.0046	0.0039	0.0076	0.0087	0.0098	0.0108	0.0119	0.0124	0.0145	0.0145
Remark:											

Intern-harmonics-EA4.6KSI											
Active power P/Pn [%]	0	10	20	30	40	50	60	70	80	90	100
Frequency [Hz]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
75	0.0215	0.0318	0.0530	0.0757	0.0947	0.1119	0.1330	0.1551	0.1768	0.1965	0.2220
125	0.0096	0.0149	0.0270	0.0338	0.0411	0.0469	0.0550	0.0633	0.0720	0.0785	0.0843
175	0.0087	0.0100	0.0121	0.0165	0.0217	0.0257	0.0313	0.0376	0.0430	0.0483	0.0521
225	0.0075	0.0087	0.0137	0.0188	0.0230	0.0262	0.0302	0.0346	0.0383	0.0419	0.0458
275	0.0073	0.0085	0.0100	0.0107	0.0127	0.0143	0.0175	0.0211	0.0234	0.0249	0.0290
325	0.0080	0.0102	0.0109	0.0153	0.0184	0.0206	0.0234	0.0267	0.0291	0.0314	0.0351
375	0.0080	0.0092	0.0106	0.0106	0.0116	0.0128	0.0148	0.0170	0.0179	0.0200	0.0229
425	0.0065	0.0090	0.0096	0.0119	0.0145	0.0164	0.0189	0.0212	0.0224	0.0244	0.0265
475	0.0065	0.0079	0.0089	0.0092	0.0093	0.0098	0.0115	0.0123	0.0132	0.0146	0.0162
525	0.0061	0.0075	0.0097	0.0101	0.0126	0.0145	0.0164	0.0178	0.0194	0.0207	0.0223
575	0.0062	0.0075	0.0082	0.0087	0.0091	0.0092	0.0104	0.0104	0.0118	0.0123	0.0132
625	0.0061	0.0077	0.0099	0.0096	0.0113	0.0130	0.0148	0.0160	0.0173	0.0185	0.0196
675	0.0061	0.0074	0.0085	0.0086	0.0091	0.0091	0.0101	0.0099	0.0110	0.0119	0.0120
725	0.0062	0.0081	0.0096	0.0092	0.0105	0.0121	0.0136	0.0144	0.0159	0.0171	0.0179
775	0.0061	0.0078	0.0088	0.0084	0.0089	0.0090	0.0098	0.0101	0.0103	0.0112	0.0117
825	0.0062	0.0079	0.0090	0.0090	0.0100	0.0111	0.0124	0.0134	0.0146	0.0157	0.0166
875	0.0063	0.0078	0.0089	0.0082	0.0088	0.0090	0.0100	0.0103	0.0105	0.0107	0.0121
925	0.0064	0.0078	0.0090	0.0089	0.0095	0.0104	0.0120	0.0130	0.0138	0.0147	0.0159
975	0.0065	0.0077	0.0087	0.0084	0.0089	0.0091	0.0100	0.0103	0.0107	0.0111	0.0118
1025	0.0064	0.0078	0.0089	0.0088	0.0095	0.0100	0.0115	0.0124	0.0136	0.0142	0.0150
1075	0.0064	0.0075	0.0087	0.0084	0.0090	0.0093	0.0100	0.0104	0.0107	0.0111	0.0119
1125	0.0064	0.0076	0.0088	0.0089	0.0093	0.0098	0.0111	0.0119	0.0125	0.0136	0.0144
1175	0.0062	0.0075	0.0087	0.0085	0.0090	0.0095	0.0101	0.0105	0.0108	0.0113	0.0117
1225	0.0061	0.0073	0.0087	0.0088	0.0092	0.0099	0.0108	0.0116	0.0122	0.0134	0.0138
1275	0.0060	0.0072	0.0084	0.0086	0.0091	0.0097	0.0105	0.0106	0.0112	0.0119	0.0120
1325	0.0058	0.0072	0.0083	0.0087	0.0095	0.0100	0.0110	0.0114	0.0123	0.0133	0.0134
1375	0.0057	0.0069	0.0081	0.0089	0.0094	0.0101	0.0105	0.0110	0.0115	0.0123	0.0125
1425	0.0056	0.0068	0.0081	0.0091	0.0098	0.0106	0.0109	0.0114	0.0120	0.0135	0.0134
1475	0.0055	0.0066	0.0078	0.0091	0.0098	0.0105	0.0106	0.0112	0.0115	0.0130	0.0130
1525	0.0053	0.0065	0.0075	0.0090	0.0096	0.0106	0.0111	0.0115	0.0121	0.0134	0.0133
1575	0.0053	0.0063	0.0073	0.0087	0.0095	0.0102	0.0109	0.0116	0.0120	0.0134	0.0136
1625	0.0051	0.0061	0.0071	0.0086	0.0093	0.0102	0.0110	0.0114	0.0122	0.0134	0.0138
1675	0.0050	0.0059	0.0067	0.0085	0.0091	0.0100	0.0110	0.0117	0.0122	0.0134	0.0137
1725	0.0049	0.0058	0.0065	0.0084	0.0093	0.0101	0.0111	0.0118	0.0123	0.0134	0.0140
1775	0.0048	0.0056	0.0062	0.0084	0.0094	0.0107	0.0113	0.0121	0.0127	0.0135	0.0146
1825	0.0046	0.0056	0.0060	0.0085	0.0093	0.0103	0.0116	0.0121	0.0126	0.0139	0.0153
1875	0.0045	0.0054	0.0058	0.0085	0.0092	0.0102	0.0119	0.0125	0.0130	0.0143	0.0157
1925	0.0044	0.0051	0.0057	0.0085	0.0090	0.0101	0.0116	0.0125	0.0130	0.0144	0.0157
1975	0.0042	0.0049	0.0055	0.0081	0.0089	0.0101	0.0116	0.0128	0.0134	0.0149	0.0164
Remark:											

Intern-harmonics-EA5KSI											
Active power P/Pn [%]	0	10	20	30	40	50	60	70	80	90	100
Frequency [Hz]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
75	0.0227	0.0372	0.0592	0.1031	0.1029	0.1209	0.1440	0.1706	0.1916	0.2171	0.2316
125	0.0100	0.0158	0.0282	0.0442	0.0441	0.0510	0.0592	0.0704	0.0773	0.0871	0.0885
175	0.0095	0.0111	0.0132	0.0236	0.0234	0.0292	0.0344	0.0407	0.0463	0.0522	0.0550
225	0.0079	0.0094	0.0149	0.0241	0.0242	0.0282	0.0318	0.0372	0.0400	0.0456	0.0487
275	0.0072	0.0085	0.0105	0.0140	0.0139	0.0159	0.0187	0.0219	0.0254	0.0277	0.0294
325	0.0080	0.0108	0.0120	0.0196	0.0194	0.0220	0.0248	0.0281	0.0311	0.0341	0.0359
375	0.0079	0.0094	0.0111	0.0124	0.0123	0.0138	0.0155	0.0178	0.0195	0.0223	0.0233
425	0.0064	0.0098	0.0096	0.0155	0.0156	0.0174	0.0196	0.0223	0.0241	0.0255	0.0275
475	0.0063	0.0081	0.0092	0.0098	0.0097	0.0109	0.0115	0.0130	0.0139	0.0164	0.0173
525	0.0060	0.0082	0.0095	0.0132	0.0132	0.0154	0.0172	0.0190	0.0200	0.0222	0.0234
575	0.0059	0.0080	0.0086	0.0095	0.0094	0.0095	0.0104	0.0112	0.0126	0.0141	0.0149
625	0.0060	0.0079	0.0098	0.0121	0.0122	0.0138	0.0153	0.0167	0.0181	0.0198	0.0209
675	0.0060	0.0077	0.0084	0.0091	0.0092	0.0095	0.0099	0.0106	0.0116	0.0127	0.0136
725	0.0061	0.0085	0.0099	0.0112	0.0113	0.0127	0.0139	0.0152	0.0167	0.0180	0.0190
775	0.0062	0.0079	0.0089	0.0089	0.0089	0.0095	0.0098	0.0103	0.0106	0.0120	0.0128
825	0.0062	0.0082	0.0095	0.0102	0.0105	0.0117	0.0130	0.0143	0.0154	0.0171	0.0180
875	0.0062	0.0079	0.0090	0.0090	0.0093	0.0095	0.0100	0.0103	0.0109	0.0116	0.0125
925	0.0063	0.0079	0.0093	0.0099	0.0103	0.0112	0.0125	0.0136	0.0145	0.0159	0.0166
975	0.0061	0.0077	0.0090	0.0092	0.0093	0.0098	0.0101	0.0105	0.0112	0.0116	0.0126
1025	0.0062	0.0078	0.0089	0.0098	0.0099	0.0109	0.0121	0.0130	0.0142	0.0152	0.0160
1075	0.0061	0.0079	0.0091	0.0092	0.0091	0.0099	0.0103	0.0109	0.0110	0.0116	0.0123
1125	0.0061	0.0079	0.0090	0.0096	0.0096	0.0106	0.0116	0.0124	0.0136	0.0145	0.0153
1175	0.0059	0.0078	0.0087	0.0092	0.0093	0.0098	0.0105	0.0109	0.0110	0.0117	0.0122
1225	0.0059	0.0077	0.0087	0.0095	0.0096	0.0104	0.0114	0.0120	0.0129	0.0142	0.0146
1275	0.0058	0.0076	0.0087	0.0093	0.0094	0.0103	0.0105	0.0111	0.0114	0.0122	0.0125
1325	0.0057	0.0075	0.0086	0.0096	0.0096	0.0107	0.0112	0.0120	0.0129	0.0137	0.0143
1375	0.0056	0.0072	0.0082	0.0093	0.0096	0.0103	0.0108	0.0115	0.0118	0.0127	0.0131
1425	0.0056	0.0071	0.0082	0.0098	0.0098	0.0108	0.0114	0.0121	0.0128	0.0136	0.0141
1475	0.0053	0.0070	0.0080	0.0097	0.0096	0.0105	0.0115	0.0119	0.0121	0.0129	0.0134
1525	0.0053	0.0070	0.0076	0.0098	0.0102	0.0105	0.0114	0.0126	0.0127	0.0134	0.0143
1575	0.0051	0.0068	0.0074	0.0096	0.0099	0.0106	0.0115	0.0125	0.0127	0.0134	0.0140
1625	0.0051	0.0064	0.0072	0.0098	0.0100	0.0105	0.0114	0.0123	0.0129	0.0135	0.0146
1675	0.0049	0.0061	0.0070	0.0097	0.0097	0.0106	0.0115	0.0126	0.0131	0.0135	0.0149
1725	0.0048	0.0058	0.0066	0.0102	0.0099	0.0108	0.0117	0.0124	0.0134	0.0139	0.0154
1775	0.0047	0.0056	0.0065	0.0098	0.0097	0.0108	0.0116	0.0130	0.0138	0.0141	0.0159
1825	0.0045	0.0055	0.0063	0.0098	0.0098	0.0109	0.0118	0.0129	0.0143	0.0141	0.0164
1875	0.0045	0.0053	0.0061	0.0097	0.0095	0.0109	0.0122	0.0134	0.0148	0.0145	0.0173
1925	0.0043	0.0051	0.0059	0.0099	0.0096	0.0108	0.0120	0.0135	0.0149	0.0148	0.0174
1975	0.0042	0.0050	0.0056	0.0098	0.0095	0.0108	0.0123	0.0136	0.0153	0.0152	0.0183
Remark:											

Intern-harmonics-EA6KSI											
Active power P/Pn [%]	0	10	20	30	40	50	60	70	80	90	100
Frequency [Hz]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
75	0.0256	0.0395	0.0770	0.0923	0.1236	0.1520	0.1757	0.1996	0.2245	0.2573	0.2848
125	0.0104	0.0187	0.0322	0.0398	0.0500	0.0607	0.0688	0.0797	0.0877	0.0997	0.1096
175	0.0090	0.0111	0.0157	0.0215	0.0275	0.0339	0.0394	0.0483	0.0548	0.0624	0.0678
225	0.0077	0.0096	0.0174	0.0245	0.0276	0.0325	0.0364	0.0420	0.0471	0.0520	0.0559
275	0.0078	0.0087	0.0101	0.0120	0.0161	0.0197	0.0218	0.0268	0.0290	0.0318	0.0351
325	0.0080	0.0106	0.0142	0.0175	0.0218	0.0255	0.0282	0.0324	0.0362	0.0388	0.0423
375	0.0082	0.0097	0.0106	0.0114	0.0141	0.0168	0.0179	0.0212	0.0233	0.0257	0.0284
425	0.0065	0.0099	0.0108	0.0139	0.0175	0.0203	0.0223	0.0248	0.0272	0.0293	0.0316
475	0.0066	0.0083	0.0094	0.0093	0.0111	0.0125	0.0131	0.0148	0.0171	0.0186	0.0199
525	0.0063	0.0090	0.0095	0.0118	0.0151	0.0173	0.0191	0.0211	0.0231	0.0251	0.0268
575	0.0061	0.0081	0.0085	0.0089	0.0099	0.0106	0.0115	0.0127	0.0149	0.0154	0.0167
625	0.0062	0.0081	0.0091	0.0106	0.0138	0.0154	0.0171	0.0187	0.0207	0.0220	0.0232
675	0.0063	0.0080	0.0082	0.0086	0.0093	0.0098	0.0107	0.0123	0.0134	0.0144	0.0150
725	0.0063	0.0079	0.0089	0.0100	0.0126	0.0142	0.0154	0.0173	0.0189	0.0199	0.0212
775	0.0062	0.0079	0.0080	0.0087	0.0092	0.0100	0.0105	0.0117	0.0126	0.0130	0.0138
825	0.0064	0.0085	0.0090	0.0097	0.0116	0.0131	0.0145	0.0161	0.0174	0.0187	0.0195
875	0.0064	0.0082	0.0081	0.0086	0.0092	0.0099	0.0104	0.0113	0.0123	0.0125	0.0132
925	0.0063	0.0083	0.0088	0.0093	0.0109	0.0123	0.0137	0.0148	0.0163	0.0172	0.0182
975	0.0063	0.0084	0.0084	0.0087	0.0095	0.0102	0.0105	0.0112	0.0119	0.0128	0.0129
1025	0.0062	0.0081	0.0087	0.0090	0.0105	0.0119	0.0129	0.0141	0.0154	0.0164	0.0171
1075	0.0062	0.0081	0.0084	0.0087	0.0095	0.0102	0.0107	0.0116	0.0120	0.0127	0.0130
1125	0.0062	0.0080	0.0086	0.0091	0.0101	0.0116	0.0126	0.0143	0.0149	0.0158	0.0164
1175	0.0062	0.0079	0.0083	0.0088	0.0096	0.0104	0.0111	0.0119	0.0124	0.0130	0.0132
1225	0.0063	0.0081	0.0084	0.0091	0.0102	0.0113	0.0124	0.0133	0.0145	0.0152	0.0158
1275	0.0063	0.0079	0.0082	0.0087	0.0099	0.0107	0.0111	0.0118	0.0124	0.0134	0.0134
1325	0.0062	0.0079	0.0082	0.0090	0.0101	0.0113	0.0119	0.0131	0.0138	0.0152	0.0154
1375	0.0060	0.0077	0.0082	0.0089	0.0100	0.0111	0.0114	0.0122	0.0124	0.0136	0.0138
1425	0.0059	0.0074	0.0083	0.0092	0.0106	0.0113	0.0120	0.0129	0.0136	0.0151	0.0150
1475	0.0057	0.0071	0.0083	0.0090	0.0102	0.0110	0.0117	0.0125	0.0129	0.0143	0.0141
1525	0.0055	0.0068	0.0084	0.0091	0.0104	0.0114	0.0119	0.0130	0.0139	0.0152	0.0147
1575	0.0053	0.0065	0.0082	0.0089	0.0102	0.0113	0.0122	0.0129	0.0135	0.0148	0.0144
1625	0.0052	0.0063	0.0082	0.0093	0.0107	0.0113	0.0123	0.0132	0.0138	0.0154	0.0148
1675	0.0050	0.0061	0.0082	0.0091	0.0105	0.0115	0.0124	0.0132	0.0138	0.0154	0.0146
1725	0.0048	0.0059	0.0083	0.0091	0.0104	0.0117	0.0127	0.0133	0.0141	0.0158	0.0148
1775	0.0047	0.0057	0.0079	0.0090	0.0103	0.0116	0.0128	0.0138	0.0145	0.0160	0.0153
1825	0.0045	0.0055	0.0082	0.0088	0.0104	0.0116	0.0128	0.0140	0.0146	0.0163	0.0154
1875	0.0045	0.0052	0.0079	0.0088	0.0101	0.0119	0.0133	0.0142	0.0152	0.0170	0.0158
1925	0.0043	0.0051	0.0080	0.0088	0.0104	0.0119	0.0132	0.0147	0.0153	0.0175	0.0158
1975	0.0042	0.0049	0.0080	0.0086	0.0103	0.0122	0.0135	0.0152	0.0159	0.0183	0.0168
Remark:											

Higher frequencies-EA2KSI											
Active power P/P _n [%]	0	10	20	30	40	50	60	70	80	90	100
Frequency [kHz]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
2.1	0.0036	0.0031	0.0038	0.0032	0.0033	0.0032	0.0050	0.0051	0.0054	0.0056	0.0059
2.3	0.0042	0.0032	0.0028	0.0030	0.0028	0.0027	0.0048	0.0051	0.0052	0.0055	0.0059
2.5	0.0037	0.0030	0.0026	0.0026	0.0026	0.0027	0.0048	0.0050	0.0048	0.0050	0.0053
2.7	0.0022	0.0021	0.0022	0.0025	0.0030	0.0032	0.0048	0.0045	0.0043	0.0046	0.0047
2.9	0.0019	0.0021	0.0027	0.0028	0.0025	0.0026	0.0038	0.0037	0.0039	0.0044	0.0044
3.1	0.0028	0.0029	0.0027	0.0025	0.0022	0.0018	0.0034	0.0037	0.0040	0.0038	0.0038
3.3	0.0029	0.0027	0.0021	0.0018	0.0016	0.0020	0.0037	0.0035	0.0034	0.0034	0.0036
3.5	0.0022	0.0019	0.0017	0.0019	0.0022	0.0023	0.0032	0.0031	0.0030	0.0032	0.0035
3.7	0.0017	0.0021	0.0026	0.0028	0.0027	0.0026	0.0029	0.0029	0.0030	0.0034	0.0033
3.9	0.0019	0.0021	0.0023	0.0022	0.0018	0.0016	0.0026	0.0028	0.0030	0.0030	0.0029
4.1	0.0038	0.0034	0.0029	0.0023	0.0019	0.0016	0.0025	0.0026	0.0027	0.0028	0.0030
4.3	0.0027	0.0018	0.0012	0.0013	0.0013	0.0015	0.0022	0.0022	0.0022	0.0022	0.0022
4.5	0.0016	0.0012	0.0013	0.0016	0.0019	0.0015	0.0018	0.0019	0.0020	0.0021	0.0021
4.7	0.0015	0.0012	0.0014	0.0014	0.0013	0.0016	0.0022	0.0021	0.0020	0.0020	0.0021
4.9	0.0012	0.0011	0.0013	0.0013	0.0013	0.0013	0.0017	0.0016	0.0016	0.0018	0.0018
5.1	0.0010	0.0012	0.0010	0.0008	0.0008	0.0009	0.0013	0.0012	0.0013	0.0013	0.0013
5.3	0.0008	0.0009	0.0009	0.0009	0.0010	0.0009	0.0011	0.0012	0.0013	0.0013	0.0013
5.5	0.0009	0.0009	0.0010	0.0010	0.0010	0.0009	0.0012	0.0012	0.0012	0.0012	0.0013
5.7	0.0009	0.0007	0.0008	0.0008	0.0008	0.0008	0.0010	0.0010	0.0009	0.0010	0.0010
5.9	0.0011	0.0008	0.0007	0.0008	0.0008	0.0008	0.0009	0.0009	0.0009	0.0009	0.0009
6.1	0.0010	0.0008	0.0007	0.0008	0.0008	0.0007	0.0008	0.0008	0.0009	0.0009	0.0009
6.3	0.0009	0.0008	0.0009	0.0007	0.0007	0.0006	0.0008	0.0008	0.0008	0.0008	0.0008
6.5	0.0008	0.0007	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0009	0.0009	0.0008
6.7	0.0008	0.0008	0.0008	0.0008	0.0008	0.0009	0.0009	0.0009	0.0009	0.0010	0.0009
6.9	0.0007	0.0007	0.0007	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
7.1	0.0007	0.0006	0.0006	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
7.3	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0007	0.0007	0.0007	0.0007
7.5	0.0007	0.0006	0.0006	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
7.7	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
7.9	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
8.1	0.0007	0.0006	0.0006	0.0006	0.0006	0.0006	0.0007	0.0007	0.0006	0.0007	0.0007
8.3	0.0007	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
8.5	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
8.7	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006
8.9	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0007	0.0008	0.0007	0.0008
Remark:											

Higher frequencies-EA2.5KSI											
Active power P/P _n [%]	0	10	20	30	40	50	60	70	80	90	100
Frequency [kHz]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
2.1	0.0033	0.0030	0.0033	0.0033	0.0032	0.0051	0.0052	0.0055	0.0060	0.0065	0.0067
2.3	0.0041	0.0032	0.0029	0.0030	0.0028	0.0047	0.0052	0.0054	0.0055	0.0058	0.0064
2.5	0.0038	0.0029	0.0025	0.0026	0.0026	0.0047	0.0049	0.0051	0.0050	0.0056	0.0061
2.7	0.0023	0.0022	0.0025	0.0029	0.0033	0.0048	0.0047	0.0046	0.0048	0.0049	0.0056
2.9	0.0019	0.0023	0.0028	0.0027	0.0026	0.0038	0.0039	0.0040	0.0044	0.0045	0.0050
3.1	0.0027	0.0029	0.0027	0.0025	0.0020	0.0036	0.0037	0.0037	0.0038	0.0041	0.0044
3.3	0.0028	0.0026	0.0020	0.0017	0.0019	0.0035	0.0034	0.0032	0.0035	0.0039	0.0040
3.5	0.0022	0.0018	0.0018	0.0020	0.0023	0.0033	0.0030	0.0031	0.0034	0.0036	0.0037
3.7	0.0016	0.0022	0.0026	0.0028	0.0026	0.0029	0.0029	0.0031	0.0033	0.0033	0.0035
3.9	0.0019	0.0023	0.0024	0.0020	0.0017	0.0027	0.0029	0.0029	0.0028	0.0028	0.0032
4.1	0.0037	0.0032	0.0026	0.0018	0.0016	0.0025	0.0028	0.0030	0.0029	0.0029	0.0030
4.3	0.0025	0.0017	0.0012	0.0013	0.0015	0.0022	0.0021	0.0021	0.0022	0.0023	0.0024
4.5	0.0015	0.0012	0.0014	0.0017	0.0015	0.0019	0.0019	0.0020	0.0021	0.0023	0.0022
4.7	0.0016	0.0014	0.0016	0.0015	0.0014	0.0022	0.0019	0.0020	0.0021	0.0020	0.0020
4.9	0.0011	0.0012	0.0013	0.0013	0.0013	0.0017	0.0016	0.0017	0.0018	0.0018	0.0017
5.1	0.0010	0.0011	0.0009	0.0009	0.0009	0.0013	0.0012	0.0013	0.0013	0.0014	0.0014
5.3	0.0008	0.0009	0.0009	0.0009	0.0009	0.0011	0.0013	0.0013	0.0013	0.0013	0.0013
5.5	0.0009	0.0010	0.0010	0.0009	0.0009	0.0012	0.0013	0.0012	0.0012	0.0013	0.0013
5.7	0.0008	0.0007	0.0008	0.0007	0.0008	0.0010	0.0009	0.0009	0.0010	0.0010	0.0010
5.9	0.0011	0.0008	0.0007	0.0008	0.0008	0.0009	0.0009	0.0009	0.0009	0.0010	0.0010
6.1	0.0010	0.0007	0.0007	0.0008	0.0007	0.0008	0.0008	0.0008	0.0010	0.0010	0.0009
6.3	0.0008	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0009	0.0008	0.0008
6.5	0.0008	0.0007	0.0008	0.0007	0.0007	0.0008	0.0008	0.0009	0.0008	0.0009	0.0009
6.7	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0009	0.0009	0.0009	0.0009	0.0010
6.9	0.0007	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
7.1	0.0007	0.0007	0.0006	0.0006	0.0006	0.0008	0.0007	0.0007	0.0007	0.0008	0.0007
7.3	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0007	0.0007	0.0008	0.0008	0.0008
7.5	0.0007	0.0006	0.0006	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
7.7	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008
7.9	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
8.1	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007
8.3	0.0007	0.0006	0.0007	0.0007	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
8.5	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
8.7	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006
8.9	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0007	0.0008	0.0008	0.0008
Remark:											

Higher frequencies-EA3KSI											
Active power P/P _n [%]	0	10	20	30	40	50	60	70	80	90	100
Frequency [kHz]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
2.1	0.0033	0.0033	0.0032	0.0035	0.0052	0.0053	0.0060	0.0062	0.0066	0.0069	0.0072
2.3	0.0038	0.0030	0.0028	0.0027	0.0048	0.0052	0.0055	0.0056	0.0060	0.0069	0.0074
2.5	0.0031	0.0023	0.0024	0.0028	0.0049	0.0048	0.0048	0.0052	0.0059	0.0065	0.0067
2.7	0.0021	0.0023	0.0026	0.0028	0.0048	0.0043	0.0044	0.0049	0.0054	0.0058	0.0060
2.9	0.0022	0.0026	0.0028	0.0025	0.0037	0.0039	0.0044	0.0045	0.0049	0.0053	0.0053
3.1	0.0029	0.0028	0.0021	0.0017	0.0035	0.0037	0.0038	0.0039	0.0046	0.0046	0.0048
3.3	0.0025	0.0021	0.0016	0.0021	0.0035	0.0033	0.0034	0.0037	0.0041	0.0042	0.0043
3.5	0.0016	0.0016	0.0021	0.0023	0.0030	0.0029	0.0034	0.0035	0.0035	0.0038	0.0039
3.7	0.0022	0.0030	0.0031	0.0026	0.0030	0.0033	0.0036	0.0036	0.0035	0.0037	0.0038
3.9	0.0023	0.0025	0.0021	0.0016	0.0028	0.0028	0.0028	0.0029	0.0032	0.0033	0.0032
4.1	0.0036	0.0028	0.0018	0.0016	0.0027	0.0027	0.0026	0.0028	0.0030	0.0032	0.0031
4.3	0.0021	0.0012	0.0012	0.0015	0.0021	0.0020	0.0021	0.0023	0.0025	0.0026	0.0027
4.5	0.0011	0.0014	0.0017	0.0014	0.0018	0.0018	0.0019	0.0021	0.0022	0.0023	0.0024
4.7	0.0014	0.0018	0.0021	0.0023	0.0035	0.0031	0.0031	0.0022	0.0021	0.0021	0.0022
4.9	0.0009	0.0013	0.0013	0.0013	0.0017	0.0016	0.0018	0.0018	0.0018	0.0019	0.0019
5.1	0.0009	0.0009	0.0008	0.0009	0.0012	0.0013	0.0013	0.0013	0.0014	0.0015	0.0015
5.3	0.0008	0.0009	0.0009	0.0008	0.0012	0.0013	0.0012	0.0013	0.0014	0.0014	0.0014
5.5	0.0011	0.0010	0.0009	0.0008	0.0012	0.0012	0.0012	0.0014	0.0014	0.0015	0.0014
5.7	0.0009	0.0008	0.0007	0.0008	0.0010	0.0010	0.0010	0.0011	0.0011	0.0011	0.0011
5.9	0.0011	0.0007	0.0007	0.0009	0.0010	0.0009	0.0009	0.0010	0.0010	0.0010	0.0011
6.1	0.0009	0.0007	0.0008	0.0008	0.0008	0.0008	0.0009	0.0009	0.0009	0.0009	0.0010
6.3	0.0007	0.0008	0.0008	0.0007	0.0008	0.0008	0.0008	0.0008	0.0009	0.0009	0.0009
6.5	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0009	0.0009	0.0009	0.0009
6.7	0.0007	0.0008	0.0008	0.0008	0.0008	0.0009	0.0009	0.0009	0.0010	0.0010	0.0010
6.9	0.0007	0.0006	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008
7.1	0.0007	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008
7.3	0.0008	0.0007	0.0006	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008
7.5	0.0007	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008
7.7	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008
7.9	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0007	0.0008	0.0008	0.0008
8.1	0.0006	0.0006	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
8.3	0.0007	0.0007	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
8.5	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0007
8.7	0.0006	0.0006	0.0006	0.0006	0.0007	0.0006	0.0006	0.0006	0.0007	0.0007	0.0007
8.9	0.0007	0.0007	0.0007	0.0007	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008
Remark:											

Higher frequencies-EA3KSI-D											
Active power P/P _n [%]	0	10	20	30	40	50	60	70	80	90	100
Frequency [kHz]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
2.1	0.0031	0.0033	0.0039	0.0039	0.0050	0.0052	0.0054	0.0060	0.0065	0.0070	0.0074
2.3	0.0039	0.0029	0.0030	0.0033	0.0043	0.0049	0.0053	0.0057	0.0094	0.0069	0.0074
2.5	0.0040	0.0026	0.0026	0.0026	0.0044	0.0048	0.0051	0.0053	0.0089	0.0066	0.0073
2.7	0.0029	0.0020	0.0024	0.0026	0.0047	0.0047	0.0047	0.0047	0.0082	0.0061	0.0071
2.9	0.0019	0.0028	0.0027	0.0026	0.0042	0.0039	0.0041	0.0045	0.0073	0.0053	0.0057
3.1	0.0021	0.0034	0.0033	0.0027	0.0034	0.0033	0.0039	0.0040	0.0066	0.0048	0.0050
3.3	0.0028	0.0034	0.0024	0.0018	0.0029	0.0032	0.0035	0.0036	0.0060	0.0042	0.0044
3.5	0.0029	0.0023	0.0017	0.0017	0.0031	0.0031	0.0030	0.0034	0.0054	0.0038	0.0039
3.7	0.0016	0.0016	0.0020	0.0025	0.0033	0.0029	0.0029	0.0035	0.0053	0.0034	0.0037
3.9	0.0014	0.0023	0.0023	0.0020	0.0024	0.0024	0.0028	0.0029	0.0046	0.0033	0.0034
4.1	0.0029	0.0020	0.0021	0.0023	0.0023	0.0026	0.0029	0.0028	0.0040	0.0031	0.0032
4.3	0.0026	0.0018	0.0012	0.0011	0.0021	0.0023	0.0022	0.0022	0.0036	0.0025	0.0026
4.5	0.0019	0.0013	0.0012	0.0014	0.0021	0.0021	0.0019	0.0020	0.0033	0.0022	0.0023
4.7	0.0019	0.0016	0.0017	0.0015	0.0019	0.0017	0.0019	0.0020	0.0030	0.0020	0.0021
4.9	0.0013	0.0021	0.0018	0.0013	0.0017	0.0016	0.0016	0.0018	0.0025	0.0018	0.0018
5.1	0.0008	0.0013	0.0010	0.0008	0.0013	0.0012	0.0012	0.0013	0.0021	0.0015	0.0015
5.3	0.0007	0.0011	0.0008	0.0008	0.0012	0.0011	0.0013	0.0013	0.0019	0.0013	0.0014
5.5	0.0008	0.0008	0.0007	0.0009	0.0011	0.0012	0.0013	0.0012	0.0017	0.0013	0.0013
5.7	0.0009	0.0009	0.0009	0.0008	0.0009	0.0009	0.0009	0.0010	0.0015	0.0010	0.0011
5.9	0.0009	0.0008	0.0007	0.0007	0.0010	0.0010	0.0009	0.0010	0.0014	0.0010	0.0011
6.1	0.0010	0.0007	0.0007	0.0007	0.0009	0.0008	0.0009	0.0009	0.0014	0.0009	0.0009
6.3	0.0009	0.0007	0.0007	0.0007	0.0008	0.0007	0.0008	0.0008	0.0014	0.0009	0.0009
6.5	0.0009	0.0008	0.0008	0.0007	0.0008	0.0007	0.0009	0.0009	0.0012	0.0010	0.0009
6.7	0.0009	0.0009	0.0009	0.0008	0.0008	0.0008	0.0009	0.0009	0.0012	0.0010	0.0010
6.9	0.0006	0.0006	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0011	0.0007	0.0008
7.1	0.0006	0.0006	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0011	0.0007	0.0008
7.3	0.0006	0.0007	0.0006	0.0007	0.0007	0.0008	0.0007	0.0007	0.0011	0.0008	0.0008
7.5	0.0007	0.0006	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0011	0.0007	0.0007
7.7	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0010	0.0008	0.0008
7.9	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0011	0.0007	0.0007
8.1	0.0007	0.0006	0.0006	0.0006	0.0007	0.0006	0.0006	0.0006	0.0010	0.0007	0.0007
8.3	0.0007	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007	0.0010	0.0007	0.0007
8.5	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0010	0.0007	0.0008
8.7	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0010	0.0006	0.0007
8.9	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0010	0.0008	0.0008
Remark:											

Higher frequencies-EA3.68KSI											
Active power P/P _n [%]	0	10	20	30	40	50	60	70	80	90	100
Frequency [kHz]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
2.1	0.0030	0.0032	0.0035	0.0033	0.0052	0.0062	0.0063	0.0066	0.0075	0.0079	0.0085
2.3	0.0037	0.0031	0.0029	0.0028	0.0052	0.0058	0.0058	0.0063	0.0070	0.0083	0.0088
2.5	0.0034	0.0024	0.0024	0.0027	0.0049	0.0053	0.0054	0.0061	0.0067	0.0081	0.0092
2.7	0.0021	0.0022	0.0026	0.0029	0.0045	0.0050	0.0049	0.0054	0.0063	0.0075	0.0083
2.9	0.0018	0.0026	0.0028	0.0025	0.0038	0.0046	0.0046	0.0052	0.0058	0.0064	0.0072
3.1	0.0027	0.0029	0.0022	0.0019	0.0036	0.0042	0.0041	0.0045	0.0049	0.0053	0.0060
3.3	0.0028	0.0023	0.0017	0.0020	0.0034	0.0040	0.0039	0.0041	0.0044	0.0047	0.0052
3.5	0.0021	0.0016	0.0020	0.0025	0.0032	0.0038	0.0038	0.0039	0.0041	0.0043	0.0047
3.7	0.0018	0.0026	0.0031	0.0027	0.0032	0.0037	0.0036	0.0039	0.0040	0.0040	0.0042
3.9	0.0018	0.0024	0.0020	0.0017	0.0029	0.0031	0.0030	0.0032	0.0037	0.0038	0.0040
4.1	0.0035	0.0029	0.0020	0.0017	0.0029	0.0029	0.0028	0.0030	0.0032	0.0033	0.0036
4.3	0.0022	0.0013	0.0012	0.0015	0.0021	0.0023	0.0023	0.0024	0.0026	0.0028	0.0030
4.5	0.0012	0.0012	0.0016	0.0014	0.0019	0.0022	0.0022	0.0023	0.0024	0.0026	0.0027
4.7	0.0015	0.0020	0.0023	0.0023	0.0037	0.0022	0.0022	0.0022	0.0023	0.0022	0.0024
4.9	0.0009	0.0013	0.0013	0.0014	0.0017	0.0018	0.0018	0.0018	0.0019	0.0020	0.0021
5.1	0.0010	0.0010	0.0008	0.0009	0.0012	0.0013	0.0013	0.0014	0.0015	0.0016	0.0017
5.3	0.0008	0.0009	0.0009	0.0009	0.0012	0.0013	0.0013	0.0013	0.0014	0.0015	0.0016
5.5	0.0009	0.0010	0.0010	0.0009	0.0013	0.0013	0.0013	0.0014	0.0014	0.0014	0.0015
5.7	0.0008	0.0007	0.0007	0.0008	0.0009	0.0010	0.0010	0.0011	0.0011	0.0011	0.0012
5.9	0.0011	0.0008	0.0008	0.0008	0.0010	0.0011	0.0011	0.0010	0.0011	0.0011	0.0012
6.1	0.0009	0.0008	0.0008	0.0007	0.0009	0.0010	0.0009	0.0009	0.0010	0.0010	0.0011
6.3	0.0007	0.0009	0.0007	0.0007	0.0008	0.0008	0.0009	0.0009	0.0009	0.0009	0.0010
6.5	0.0007	0.0008	0.0008	0.0007	0.0008	0.0009	0.0009	0.0009	0.0009	0.0009	0.0010
6.7	0.0007	0.0008	0.0008	0.0008	0.0009	0.0009	0.0009	0.0010	0.0010	0.0010	0.0010
6.9	0.0007	0.0006	0.0006	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008
7.1	0.0007	0.0007	0.0006	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
7.3	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
7.5	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008
7.7	0.0008	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
7.9	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
8.1	0.0006	0.0006	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
8.3	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
8.5	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
8.7	0.0006	0.0006	0.0006	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0006	0.0007
8.9	0.0007	0.0008	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
Remark:											

Higher frequencies-EA4KSI											
Active power P/P _n [%]	0	10	20	30	40	50	60	70	80	90	100
Frequency [kHz]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
2.1	0.0030	0.0035	0.0032	0.0050	0.0055	0.0061	0.0066	0.0073	0.0082	0.0087	0.0092
2.3	0.0037	0.0030	0.0028	0.0045	0.0053	0.0057	0.0063	0.0071	0.0083	0.0091	0.0097
2.5	0.0034	0.0026	0.0025	0.0048	0.0049	0.0053	0.0063	0.0068	0.0079	0.0090	0.0101
2.7	0.0021	0.0021	0.0032	0.0046	0.0043	0.0047	0.0053	0.0059	0.0070	0.0083	0.0097
2.9	0.0018	0.0026	0.0024	0.0038	0.0040	0.0047	0.0051	0.0058	0.0065	0.0073	0.0085
3.1	0.0028	0.0027	0.0022	0.0031	0.0037	0.0040	0.0046	0.0051	0.0054	0.0062	0.0070
3.3	0.0028	0.0022	0.0016	0.0033	0.0034	0.0038	0.0044	0.0045	0.0048	0.0053	0.0058
3.5	0.0021	0.0015	0.0021	0.0032	0.0034	0.0037	0.0038	0.0042	0.0045	0.0049	0.0051
3.7	0.0017	0.0024	0.0027	0.0030	0.0031	0.0033	0.0034	0.0038	0.0041	0.0046	0.0045
3.9	0.0016	0.0022	0.0019	0.0024	0.0027	0.0028	0.0030	0.0033	0.0036	0.0038	0.0042
4.1	0.0035	0.0028	0.0019	0.0026	0.0028	0.0029	0.0029	0.0031	0.0032	0.0033	0.0036
4.3	0.0023	0.0013	0.0012	0.0023	0.0021	0.0022	0.0025	0.0026	0.0029	0.0029	0.0031
4.5	0.0012	0.0016	0.0016	0.0020	0.0019	0.0020	0.0022	0.0024	0.0026	0.0027	0.0028
4.7	0.0011	0.0013	0.0017	0.0020	0.0026	0.0026	0.0023	0.0022	0.0024	0.0026	0.0026
4.9	0.0009	0.0013	0.0013	0.0018	0.0017	0.0019	0.0019	0.0020	0.0020	0.0021	0.0022
5.1	0.0011	0.0010	0.0008	0.0012	0.0013	0.0013	0.0014	0.0015	0.0017	0.0018	0.0019
5.3	0.0008	0.0008	0.0009	0.0011	0.0013	0.0013	0.0014	0.0014	0.0015	0.0016	0.0017
5.5	0.0009	0.0010	0.0009	0.0011	0.0012	0.0012	0.0013	0.0014	0.0014	0.0014	0.0015
5.7	0.0008	0.0007	0.0007	0.0010	0.0009	0.0011	0.0010	0.0011	0.0012	0.0013	0.0013
5.9	0.0010	0.0008	0.0008	0.0010	0.0009	0.0010	0.0010	0.0011	0.0011	0.0012	0.0012
6.1	0.0010	0.0007	0.0008	0.0009	0.0009	0.0009	0.0010	0.0010	0.0010	0.0010	0.0011
6.3	0.0007	0.0007	0.0008	0.0009	0.0008	0.0008	0.0009	0.0009	0.0009	0.0010	0.0010
6.5	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0009	0.0009	0.0009	0.0010	0.0010
6.7	0.0007	0.0008	0.0008	0.0009	0.0009	0.0009	0.0010	0.0010	0.0010	0.0010	0.0010
6.9	0.0007	0.0007	0.0006	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008
7.1	0.0007	0.0006	0.0006	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008
7.3	0.0007	0.0007	0.0007	0.0008	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
7.5	0.0007	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008
7.7	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
7.9	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0009	0.0008
8.1	0.0006	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0007
8.3	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0007
8.5	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008
8.7	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007
8.9	0.0008	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
Remark:											

Higher frequencies-EA4.6KSI											
Active power P/P _n [%]	0	10	20	30	40	50	60	70	80	90	100
Frequency [kHz]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
2.1	0.0028	0.0032	0.0034	0.0052	0.0057	0.0066	0.0073	0.0081	0.0084	0.0103	0.0103
2.3	0.0036	0.0029	0.0029	0.0050	0.0054	0.0062	0.0072	0.0081	0.0093	0.0113	0.0112
2.5	0.0033	0.0024	0.0026	0.0050	0.0049	0.0057	0.0067	0.0078	0.0095	0.0114	0.0125
2.7	0.0021	0.0023	0.0028	0.0046	0.0044	0.0050	0.0060	0.0073	0.0084	0.0109	0.0126
2.9	0.0019	0.0026	0.0026	0.0038	0.0043	0.0050	0.0058	0.0064	0.0072	0.0098	0.0107
3.1	0.0027	0.0028	0.0020	0.0034	0.0037	0.0043	0.0048	0.0055	0.0062	0.0078	0.0085
3.3	0.0028	0.0021	0.0017	0.0034	0.0034	0.0040	0.0043	0.0048	0.0054	0.0065	0.0068
3.5	0.0021	0.0016	0.0022	0.0031	0.0033	0.0041	0.0042	0.0043	0.0047	0.0057	0.0058
3.7	0.0018	0.0026	0.0027	0.0030	0.0034	0.0035	0.0042	0.0041	0.0043	0.0050	0.0052
3.9	0.0018	0.0021	0.0017	0.0026	0.0027	0.0028	0.0034	0.0038	0.0038	0.0043	0.0047
4.1	0.0033	0.0025	0.0016	0.0027	0.0027	0.0028	0.0031	0.0033	0.0036	0.0037	0.0038
4.3	0.0020	0.0011	0.0014	0.0024	0.0023	0.0026	0.0026	0.0028	0.0030	0.0035	0.0034
4.5	0.0010	0.0012	0.0015	0.0019	0.0020	0.0023	0.0024	0.0025	0.0027	0.0030	0.0030
4.7	0.0016	0.0022	0.0021	0.0028	0.0027	0.0022	0.0022	0.0023	0.0024	0.0026	0.0029
4.9	0.0008	0.0013	0.0013	0.0017	0.0018	0.0018	0.0019	0.0020	0.0021	0.0024	0.0025
5.1	0.0010	0.0009	0.0009	0.0012	0.0013	0.0014	0.0015	0.0017	0.0017	0.0020	0.0020
5.3	0.0008	0.0009	0.0009	0.0012	0.0013	0.0013	0.0014	0.0015	0.0016	0.0018	0.0018
5.5	0.0010	0.0010	0.0009	0.0012	0.0012	0.0013	0.0013	0.0014	0.0014	0.0016	0.0016
5.7	0.0008	0.0008	0.0008	0.0009	0.0010	0.0010	0.0011	0.0012	0.0012	0.0013	0.0014
5.9	0.0009	0.0007	0.0008	0.0009	0.0009	0.0010	0.0011	0.0011	0.0012	0.0013	0.0013
6.1	0.0008	0.0007	0.0007	0.0008	0.0009	0.0009	0.0009	0.0010	0.0011	0.0011	0.0012
6.3	0.0006	0.0007	0.0007	0.0009	0.0009	0.0008	0.0009	0.0009	0.0010	0.0011	0.0011
6.5	0.0006	0.0007	0.0007	0.0008	0.0009	0.0009	0.0009	0.0010	0.0010	0.0010	0.0011
6.7	0.0007	0.0008	0.0008	0.0009	0.0009	0.0009	0.0010	0.0010	0.0010	0.0010	0.0010
6.9	0.0007	0.0006	0.0006	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0009
7.1	0.0006	0.0006	0.0006	0.0007	0.0008	0.0007	0.0008	0.0008	0.0008	0.0009	0.0009
7.3	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.0009
7.5	0.0007	0.0006	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0009
7.7	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0009
7.9	0.0007	0.0007	0.0007	0.0007	0.0008	0.0007	0.0008	0.0008	0.0009	0.0009	0.0008
8.1	0.0006	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0009	0.0008
8.3	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0007	0.0007	0.0008
8.5	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008
8.7	0.0006	0.0006	0.0006	0.0007	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007
8.9	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
Remark:											

Higher frequencies-EA5KSI											
Active power P/P _n [%]	0	10	20	30	40	50	60	70	80	90	100
Frequency [kHz]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
2.1	0.0032	0.0034	0.0032	0.0063	0.0062	0.0070	0.0079	0.0093	0.0099	0.0104	0.0117
2.3	0.0036	0.0028	0.0028	0.0057	0.0058	0.0069	0.0078	0.0092	0.0104	0.0115	0.0127
2.5	0.0029	0.0024	0.0028	0.0052	0.0054	0.0064	0.0078	0.0092	0.0105	0.0129	0.0131
2.7	0.0020	0.0027	0.0033	0.0047	0.0049	0.0057	0.0068	0.0084	0.0100	0.0121	0.0120
2.9	0.0023	0.0029	0.0023	0.0044	0.0044	0.0054	0.0063	0.0074	0.0088	0.0100	0.0100
3.1	0.0031	0.0023	0.0019	0.0040	0.0041	0.0049	0.0054	0.0063	0.0071	0.0080	0.0076
3.3	0.0027	0.0017	0.0022	0.0038	0.0037	0.0043	0.0048	0.0053	0.0060	0.0066	0.0064
3.5	0.0017	0.0020	0.0024	0.0038	0.0035	0.0039	0.0043	0.0050	0.0053	0.0056	0.0056
3.7	0.0025	0.0030	0.0023	0.0033	0.0034	0.0037	0.0041	0.0043	0.0048	0.0048	0.0052
3.9	0.0021	0.0022	0.0015	0.0028	0.0027	0.0032	0.0034	0.0038	0.0042	0.0042	0.0046
4.1	0.0034	0.0020	0.0017	0.0028	0.0028	0.0030	0.0032	0.0035	0.0037	0.0038	0.0040
4.3	0.0017	0.0012	0.0015	0.0022	0.0022	0.0025	0.0027	0.0030	0.0032	0.0033	0.0034
4.5	0.0011	0.0017	0.0013	0.0021	0.0020	0.0022	0.0025	0.0027	0.0029	0.0029	0.0031
4.7	0.0021	0.0018	0.0017	0.0027	0.0024	0.0023	0.0023	0.0024	0.0027	0.0026	0.0030
4.9	0.0011	0.0013	0.0014	0.0019	0.0019	0.0019	0.0020	0.0021	0.0023	0.0023	0.0025
5.1	0.0011	0.0008	0.0009	0.0014	0.0013	0.0015	0.0016	0.0018	0.0019	0.0019	0.0019
5.3	0.0009	0.0009	0.0008	0.0013	0.0012	0.0014	0.0015	0.0016	0.0017	0.0018	0.0018
5.5	0.0010	0.0009	0.0009	0.0012	0.0013	0.0014	0.0014	0.0014	0.0015	0.0016	0.0016
5.7	0.0007	0.0007	0.0009	0.0010	0.0010	0.0011	0.0012	0.0012	0.0013	0.0014	0.0014
5.9	0.0009	0.0007	0.0008	0.0010	0.0010	0.0010	0.0011	0.0012	0.0012	0.0013	0.0013
6.1	0.0007	0.0007	0.0007	0.0009	0.0009	0.0009	0.0010	0.0010	0.0011	0.0011	0.0012
6.3	0.0007	0.0007	0.0006	0.0008	0.0008	0.0009	0.0009	0.0010	0.0010	0.0011	0.0011
6.5	0.0007	0.0007	0.0007	0.0009	0.0009	0.0009	0.0009	0.0009	0.0010	0.0010	0.0011
6.7	0.0007	0.0008	0.0008	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0011
6.9	0.0008	0.0008	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.0009	0.0009	0.0009
7.1	0.0007	0.0007	0.0006	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0009	0.0009
7.3	0.0007	0.0007	0.0007	0.0008	0.0007	0.0008	0.0008	0.0008	0.0008	0.0009	0.0009
7.5	0.0007	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0009
7.7	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0009	0.0009
7.9	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0009	0.0009	0.0009
8.1	0.0007	0.0007	0.0006	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0009	0.0008
8.3	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008
8.5	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0007	0.0008	0.0008	0.0008	0.0008
8.7	0.0006	0.0006	0.0006	0.0006	0.0006	0.0007	0.0006	0.0007	0.0007	0.0007	0.0007
8.9	0.0008	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
Remark:											

Higher frequencies-EA6KSI											
Active power P/P _n [%]	0	10	20	30	40	50	60	70	80	90	100
Frequency [kHz]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
2.1	0.0031	0.0030	0.0051	0.0056	0.0067	0.0077	0.0090	0.0101	0.0105	0.0122	0.0112
2.3	0.0033	0.0026	0.0049	0.0053	0.0064	0.0076	0.0094	0.0111	0.0117	0.0141	0.0133
2.5	0.0027	0.0025	0.0050	0.0049	0.0058	0.0072	0.0096	0.0124	0.0144	0.0143	0.0166
2.7	0.0022	0.0031	0.0042	0.0042	0.0053	0.0067	0.0086	0.0119	0.0153	0.0129	0.0193
2.9	0.0022	0.0025	0.0036	0.0040	0.0051	0.0058	0.0076	0.0105	0.0138	0.0112	0.0161
3.1	0.0026	0.0018	0.0035	0.0035	0.0043	0.0055	0.0072	0.0086	0.0115	0.0086	0.0119
3.3	0.0020	0.0017	0.0034	0.0034	0.0041	0.0048	0.0062	0.0070	0.0091	0.0070	0.0090
3.5	0.0014	0.0022	0.0028	0.0033	0.0039	0.0043	0.0048	0.0058	0.0071	0.0061	0.0074
3.7	0.0026	0.0028	0.0027	0.0032	0.0036	0.0039	0.0044	0.0052	0.0058	0.0055	0.0064
3.9	0.0022	0.0016	0.0027	0.0025	0.0029	0.0034	0.0039	0.0045	0.0047	0.0048	0.0059
4.1	0.0031	0.0016	0.0027	0.0027	0.0028	0.0032	0.0035	0.0039	0.0041	0.0042	0.0052
4.3	0.0013	0.0014	0.0020	0.0021	0.0024	0.0026	0.0029	0.0035	0.0036	0.0038	0.0045
4.5	0.0011	0.0015	0.0019	0.0021	0.0022	0.0024	0.0027	0.0031	0.0033	0.0035	0.0041
4.7	0.0015	0.0016	0.0022	0.0020	0.0023	0.0022	0.0025	0.0027	0.0030	0.0030	0.0038
4.9	0.0009	0.0014	0.0016	0.0017	0.0019	0.0020	0.0022	0.0024	0.0026	0.0026	0.0034
5.1	0.0009	0.0009	0.0012	0.0013	0.0014	0.0016	0.0018	0.0020	0.0022	0.0022	0.0028
5.3	0.0009	0.0009	0.0012	0.0012	0.0013	0.0015	0.0016	0.0019	0.0020	0.0019	0.0025
5.5	0.0012	0.0009	0.0012	0.0012	0.0013	0.0014	0.0015	0.0017	0.0017	0.0017	0.0022
5.7	0.0007	0.0008	0.0009	0.0010	0.0011	0.0011	0.0013	0.0015	0.0015	0.0015	0.0018
5.9	0.0009	0.0008	0.0009	0.0010	0.0010	0.0011	0.0012	0.0014	0.0014	0.0014	0.0016
6.1	0.0007	0.0008	0.0008	0.0010	0.0010	0.0010	0.0011	0.0012	0.0013	0.0013	0.0015
6.3	0.0007	0.0008	0.0009	0.0008	0.0009	0.0009	0.0010	0.0011	0.0012	0.0011	0.0013
6.5	0.0008	0.0007	0.0008	0.0008	0.0009	0.0010	0.0010	0.0010	0.0011	0.0011	0.0012
6.7	0.0008	0.0008	0.0009	0.0009	0.0010	0.0010	0.0010	0.0011	0.0011	0.0011	0.0012
6.9	0.0007	0.0006	0.0007	0.0007	0.0007	0.0008	0.0008	0.0009	0.0009	0.0009	0.0010
7.1	0.0007	0.0006	0.0007	0.0007	0.0007	0.0008	0.0008	0.0009	0.0009	0.0009	0.0010
7.3	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0009	0.0009	0.0009	0.0010
7.5	0.0007	0.0006	0.0007	0.0007	0.0008	0.0008	0.0008	0.0009	0.0009	0.0009	0.0009
7.7	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0009	0.0009	0.0009	0.0009
7.9	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0009	0.0009	0.0010	0.0009
8.1	0.0006	0.0006	0.0006	0.0006	0.0007	0.0007	0.0007	0.0008	0.0008	0.0009	0.0008
8.3	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008
8.5	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
8.7	0.0006	0.0006	0.0006	0.0006	0.0006	0.0007	0.0006	0.0007	0.0007	0.0007	0.0007
8.9	0.0008	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0009	0.0009
Remark:											

F.4 Requirement for the test report for the NS protection (VDE-AR-N 4105)			
A.2 Requirements to the Test Report on the NA Protection (DIN VDE V 0124-100)			
Extract from the test report on the certificate of units "Determination of electrical properties"		50185159 001	
<input type="checkbox"/> NS Protection as Central NA Protection			
Type of NS protection:		Other manufacturer's data	
Software version:			
Manufacturer:			
Measuring period: from YYYY-MM-DD to YYYY-MM-DD			
Protection function	Setting value	Tripping value	Tripping time NS protection ^a
Voltage decrease protection $U <$	$0.8 * U_n$	$* U_n$	ms
Voltage increase protection $U >$	$1.1 * U_n$	$* U_n$	ms
Voltage increase protection $U >>$	$1.15 * U_n$	$* U_n$	ms
Frequency decrease protection $f <$	47.5Hz	Hz	ms
Frequency increase protection $f >$	51.5Hz	Hz	ms
a. The tripping time comprises the period before limit violation $U f$ until tripping signal to interface switch. During planning of power generation system the proper time of interface switch shall be added to the highest value of time determined above. The break time (sum of tripping time NS protection plus proper time of interface switch) should not exceed 200 ms.			
<input checked="" type="checkbox"/> NS Protection as integrated NS Protection			
Type of NS protection: Integrated NS protection		Other manufacturer's data	
Software version: V009		Assigned to PGU type: Grid-tied PV Inverter [non-Isolated type]	
Manufacturer: EAST Group Co., Ltd.		Integrated interface switch	
		Type of switching equipment 1: AC Relay	
		Type of switching equipment 2: AC Relay	
Measuring period: from 2018-08-10 to 2018-09-10			
<i>Remark:</i>			
Protection function	Setting value	Tripping value	Break time
Voltage decrease protection $U <$	$0.8 * U_n$	183.6V	115ms
Voltage increase protection $U >$	$1.1 * U_n$	253.3V	478s*
Voltage increase protection $U >>$	$1.15 * U_n$	264.3V	127ms
Frequency decrease protection $f <$	47.5Hz	47.50Hz	135ms
Frequency increase protection $f >$	51.5Hz	51.49Hz	75ms
Proper time of interface switch	< 20 ms		
The break time (sum of tripping time NS protection plus proper time of interface switch) should not exceed 200 ms. The verification of the full function chain "NS protection- Interface switch" has yield to intended disconnection. * Inverter disconnected due to the voltage increase protection as a moving 10-minute average, tested in accordance with point 5.4.5.3.3 measure a) of the VDE 0124-100.			

Product: Grid-tied PV Inverter
Type: EA2KSI, EA2.5KSI, EA3KSI, EA3KSI-D, EA3.68KSI,
EA4KSI, EA4.6KSI, EA5KSI, EA6KSI



Figure 1. Front view for model: EA2KSI, EA2.5KSI, EA3KSI



Figure 2. Rear view for model: EA2KSI, EA2.5KSI, EA3KSI

Product: Grid-tied PV Inverter
Type: EA2KSI, EA2.5KSI, EA3KSI, EA3KSI-D, EA3.68KSI,
EA4KSI, EA4.6KSI, EA5KSI, EA6KSI



Figure 3. Terminal panel view for model: EA2KSI, EA2.5KSI, EA3KSI



Figure 4. Internal view-1 for model: EA2KSI, EA2.5KSI, EA3KSI

Product: Grid-tied PV Inverter
Type: EA2KSI, EA2.5KSI, EA3KSI, EA3KSI-D, EA3.68KSI,
EA4KSI, EA4.6KSI, EA5KSI, EA6KSI

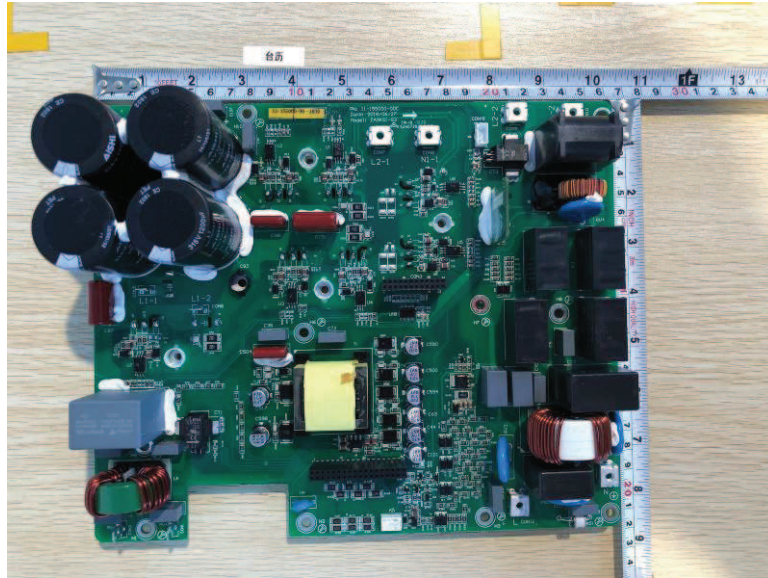


Figure 5. Component side view of Main board for model: EA2KSI, EA2.5KSI, EA3KSI

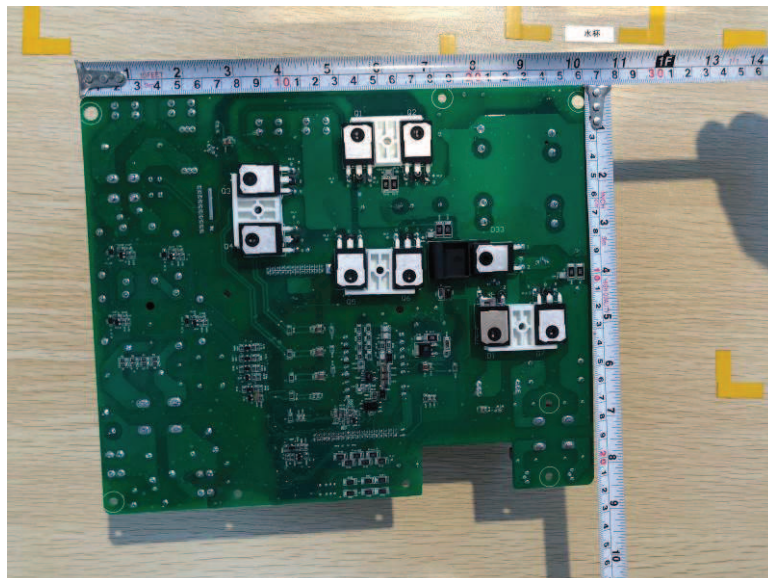


Figure 6. Solder side view of Main board for model: EA2KSI, EA2.5KSI, EA3KSI

Product: Grid-tied PV Inverter
Type: EA2KSI, EA2.5KSI, EA3KSI, EA3KSI-D, EA3.68KSI,
EA4KSI, EA4.6KSI, EA5KSI, EA6KSI



Figure 7. Front view for model: EA3KSI-D, EA3.68KSI, EA4KSI, EA4.6KSI, EA5KSI, EA6KSI

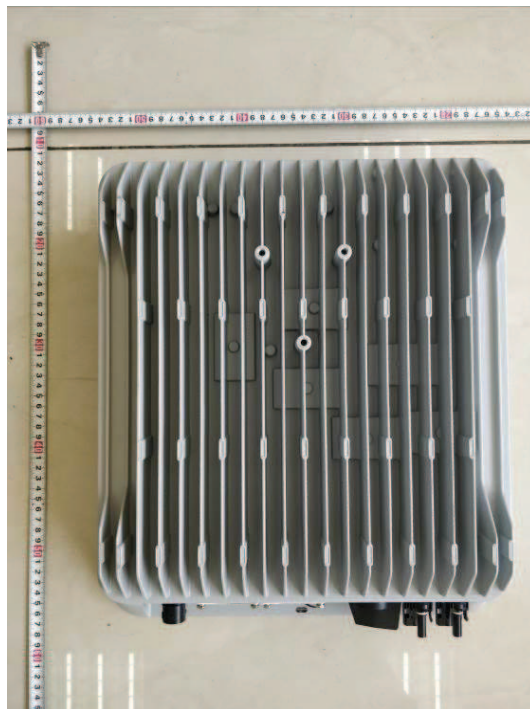


Figure 8. Rear view for model: EA3KSI-D, EA3.68KSI, EA4KSI, EA4.6KSI, EA5KSI, EA6KSI

Product: Grid-tied PV Inverter
Type: EA2KSI, EA2.5KSI, EA3KSI, EA3KSI-D, EA3.68KSI,
EA4KSI, EA4.6KSI, EA5KSI, EA6KSI



Figure 9. Terminal panel view for model: EA3KSI-D, EA3.68KSI, EA4KSI, EA4.6KSI, EA5KSI, EA6KSI



Figure 10. Internal view-1 for model: EA3KSI-D, EA3.68KSI, EA4KSI, EA4.6KSI, EA5KSI

Product: Grid-tied PV Inverter
Type: EA2KSI, EA2.5KSI, EA3KSI, EA3KSI-D, EA3.68KSI,
EA4KSI, EA4.6KSI, EA5KSI, EA6KSI

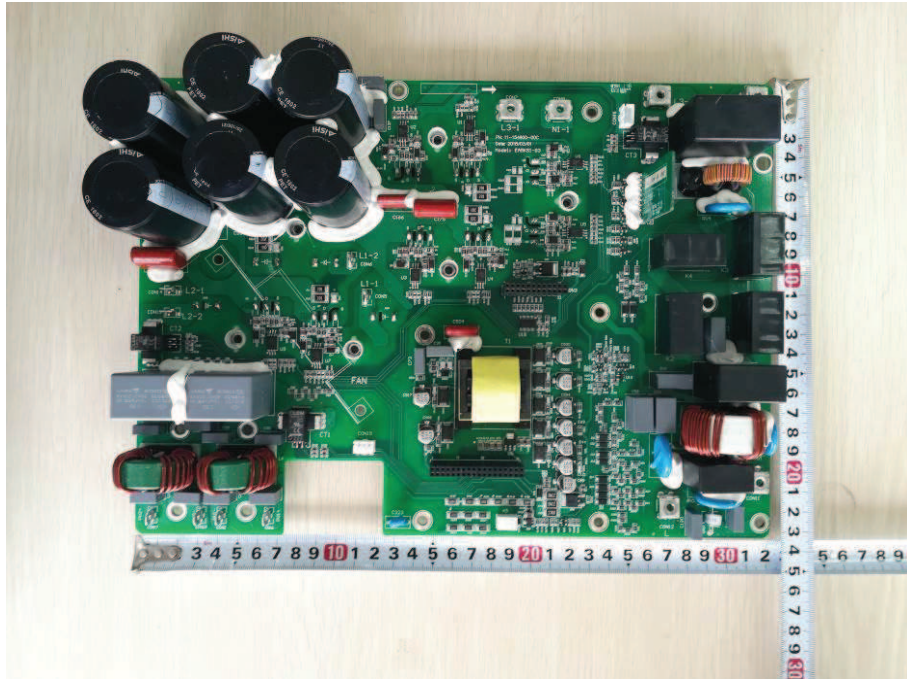


Figure 11. Component side view of Main board for model: EA3KSI-D, EA3.68KSI, EA4KSI, EA4.6KSI, EA5KSI, EA6KSI

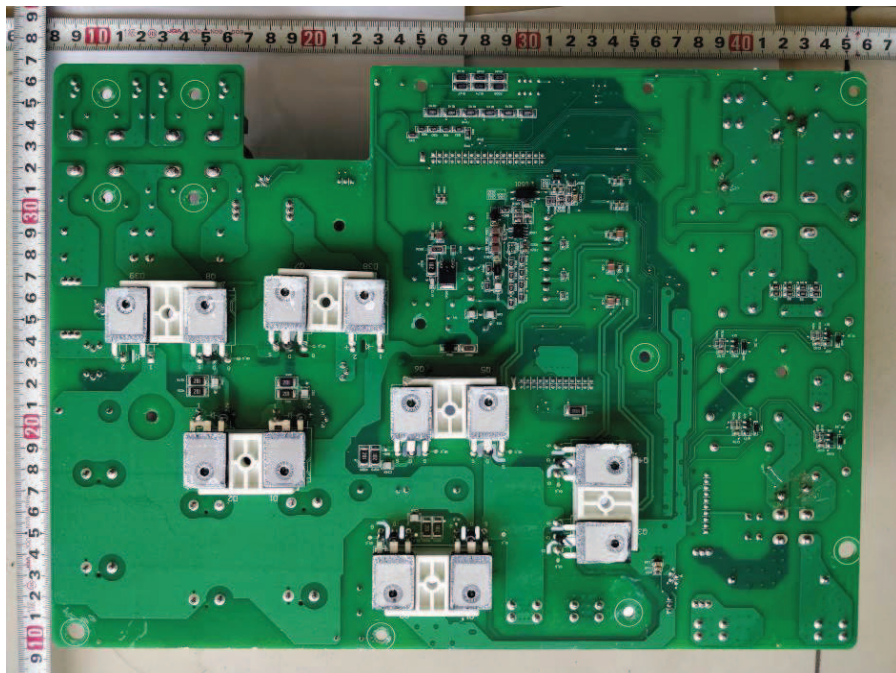


Figure 12. Solder side view of Main board for model: EA3KSI-D, EA3.68KSI, EA4KSI, EA4.6KSI, EA5KSI, EA6KSI

Product: Grid-tied PV Inverter
Type: EA2KSI, EA2.5KSI, EA3KSI, EA3KSI-D, EA3.68KSI,
EA4KSI, EA4.6KSI, EA5KSI, EA6KSI

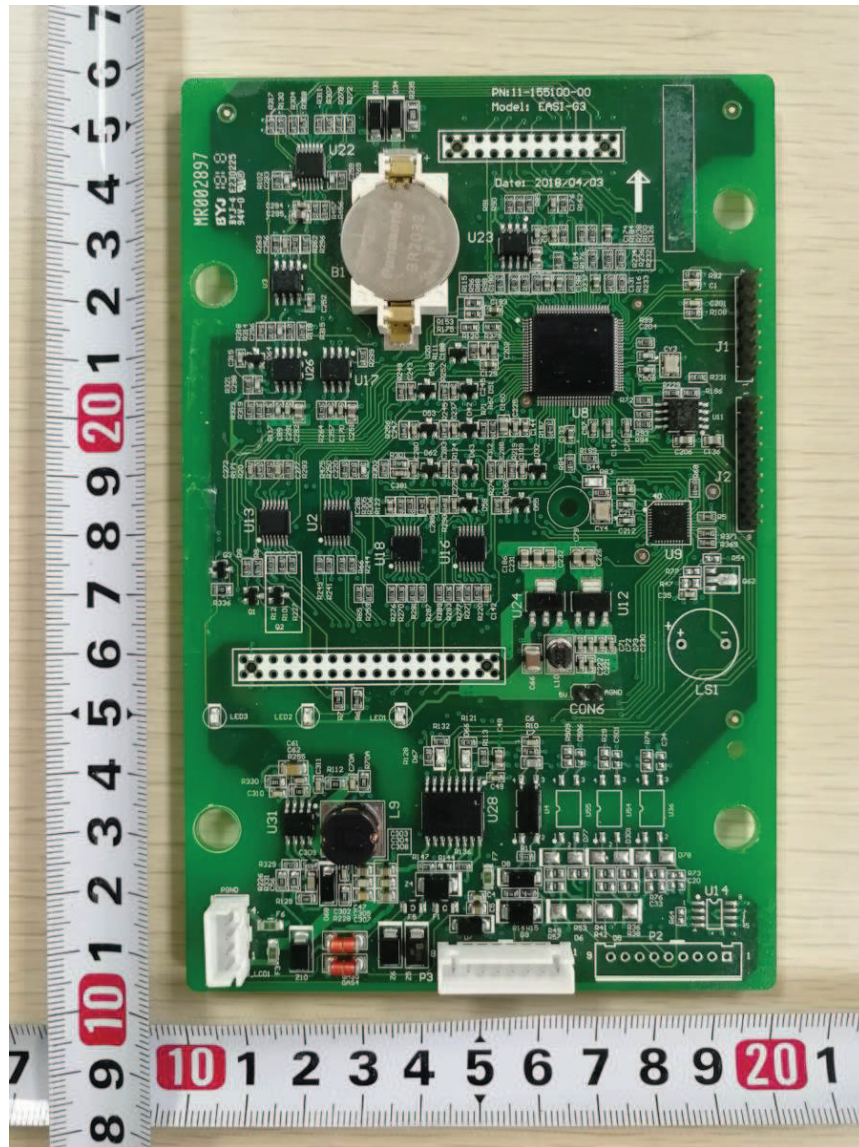


Figura 13. Component side view of Control board

Product: Grid-tied PV Inverter
Type: EA2KSI, EA2.5KSI, EA3KSI, EA3KSI-D, EA3.68KSI,
EA4KSI, EA4.6KSI, EA5KSI, EA6KSI

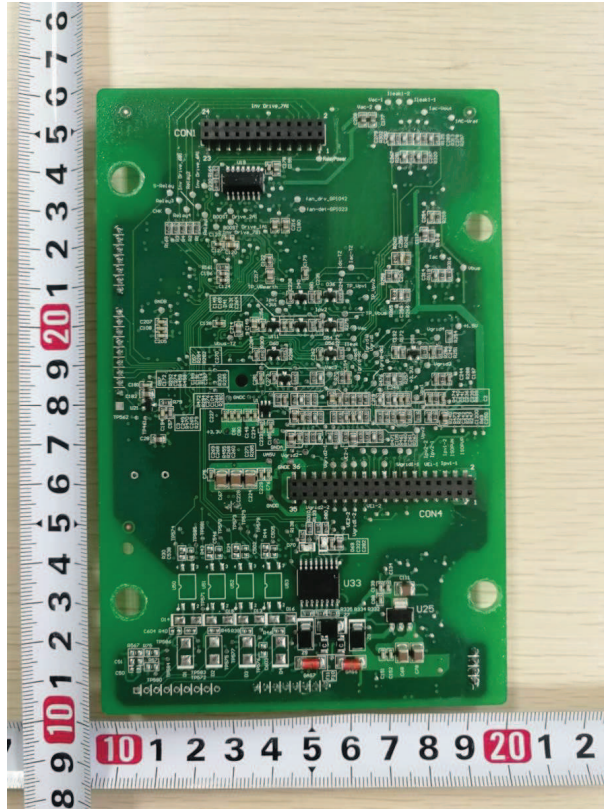


Figure 14. Solder side view of Control board



Figure 15. Internal view-2 for model: EA6KSI