



Constructional Data Form for Electrical Products

(For TUV Rheinland of N.A., Inc. use only)
Certificate # US 72204227 01 File # 60418398 001

License Holder : East Group Co., Ltd.
No.6 Northern Industry Road, Songshan Lake Sci.& Tech. industrial zone,
Dongguan City, Guangdong province, China

Factory : East Group Co., Ltd.
No.6 Northern Industry Road, Songshan Lake Sci.& Tech. industrial zone,
Dongguan City, Guangdong province, China

Type of Product : Grid-connected PV Inverter

Model Number : EA2KSI, EA2.5KSI, EA3KSI, EA3KSI-D,EA3.68KSI,
EA4KSI, EA4.6KSI, EA5KSI, EA6KSI, EA7KSI

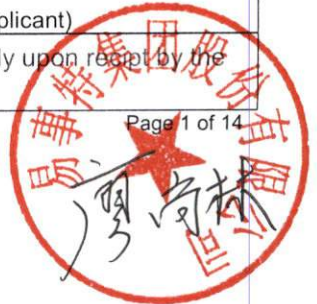
Trademark :

Rating : See following table

MODEL LIST 1		EA2KSI	EA2.5KSI	EA3KSI	EA3KSI-D	EA7KSI
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	350-480
	Input PV Operating Voltage Range [Vdc]	90-600				
	Start PV Voltage [Vdc]	120				
	Backfeed Current [A]	0				
	Overvoltage Category (OVC)	OVC II				
Rated Output Voltage Ur [Vac]	220/240					

 TUV Rheinland of North America, Inc.		
	(Place)	(Date)
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	Normal Operating Voltage Range Un [Vac]	180-280				
	Rated Output Frequency F _{NETZ} [Hz]	60				
	Normal Operating Frequency Range Fn [Hz]	55 - 65				
	Rated Output Power P _E [W]	2000	2500	3000	3000	7000
	Max. Output Current I _{max} [A]	9.1/8.3	11.4/10.4	13.6/12.5	13.6/12.5	31.8/29.2
	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: V016, MCU: V016				
	Separated by	Transformerless				
	MPPT strings	1		2		
	MPPT tracking	1		2		
	Protective Class	1				
	Enclosure Protection (IP)	IP65				
	Operating Temperature Range [°C]	-25-60 (> 45 °C derating)				
	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	

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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]	220/240				
	Normal Operating Voltage Range U _n [Vac]	180-280				
	Rated Output Frequency F _{NETZ} [Hz]	60				
	Normal Operating Frequency Range F _n [Hz]	55 - 65				
	Rated Output Power P _E [W]	3680	4000	4600	5000	6000
	Max. Output Current I _{max} [A]	16.7/15.3	18.2/16.7	20.9/19.2	22.7/20.8	27.3/25
	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%					

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Type of Product : Grid-connected PV Inverter

Model Number : EA2KSI, EA2.5KSI, EA3KSI, EA3KSI-D,EA3.68KSI,
EA4KSI, EA4.6KSI, EA5KSI, EA6KSI, EA7KSI

Trademark :

Rating : See following table

MODEL LIST 1		EA2KSI	EA2.5KSI	EA3KSI	EA3KSI-D	EA7KSI
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	350-480
	Input PV Operating Voltage Range [Vdc]	90-600				
	Start PV Voltage [Vdc]	120				
	Backfeed Current [A]	0				
	Overvoltage Category (OVC)	OVC II				
Rated Output Voltage Ur [Vac]	220/240					

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	Normal Operating Voltage Range U_n [Vac]	180-280				
	Rated Output Frequency F_{NETZ} [Hz]	60				
	Normal Operating Frequency Range F_n [Hz]	55 - 65				
	Rated Output Power P_E [W]	2000	2500	3000	3000	7000
	Max. Output Current I_{max} [A]	9.1/8.3	11.4/10.4	13.6/12.5	13.6/12.5	31.8/29.2
	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: V016, MCU: V016				
	Separated by	Transformerless				
	MPPT strings	1		2		
	MPPT tracking	1		2		
	Protective Class	1				
	Enclosure Protection (IP)	IP65				
	Operating Temperature Range [°C]	-25-60 (> 45 °C derating)				
	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	

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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]	220/240			
Normal Operating Voltage Range U _n [Vac]		180-280				
Rated Output Frequency F _{NETZ} [Hz]		60				
Normal Operating Frequency Range F _n [Hz]		55 - 65				
Rated Output Power P _E [W]		3680	4000	4600	5000	6000
Max. Output Current I _{max} [A]		16.7/15.3	18.2/16.7	20.9/19.2	22.7/20.8	27.3/25
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%				

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	Acoustic Noise [dB]	< 40
	Overvoltage Category (OVC)	OVC III
SYSTEM	Type of inverter	Non-transformer
	Firmware [DSP/MCU]	MDSP: V016, MCU: V016
	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:		

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List of Critical Components:

Item No.	Object/part no.	Manufacturer/ Trademark	Type/Model	Technical Data	Standard	Mark(s) of Conformity
1	DC input connector	AMPHENOL	H4CFM4D-M,1000V,35A	Rated System Voltage: 1500V Rated Current : 20A; Application Temperature :-40°C ~+85°C	UL 6703	UL E339277
2	AC output terminal	Feng Nian Technology Co., Ltd.	25A,EN030-1126-0001	Rated Impulse Voltage: 4000V Rated Current : 25A; Application Temperature :-40°C ~+105°C	UL 2238,	UL E464733
3	DC Switch	Projoy New Energy Technology Co., Ltd.	PEDS150R-HM32-3,13A,DC1000V,3P	Rated insulation voltage: 1500V Rated impulse withstand voltage: 8000V	UL 508I	UL E489584
			PEDS150R-HM16-2,1500VDC,16A,2P	Rated short-time withstand current: 800A Operating Temp. Range (°C): -40~+70		

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Item No.	Object/part no.	Manufacturer/ Trademark	Type/Model	Technical Data	Standard	Mark(s) of Conformity
4		Beijing People Electric Factory Co., Ltd. (spare)	GHX5-32P	Rated insulation voltage: 1500V Rated impulse withstand voltage: 8000V Rated short-time withstand current: 800A Operating Temp. Range(°C): -40~+70	UL 508I	UL E513631
6	Inverter choke	CLICK	LC225-376	0.69mH±10%, 35.0m ohm, 1.8mm×2P, 50TS, Max.130°C	UL 1741	Tested within appliance
			BCK50001-074	0.83mH±10%, 0.45mH, 60TS, Max.130°C		
7	Copper wire	PACIFIC ELECTRIC WIRE& CABLE CO.,LTD	Polyester imide copper wire:MW30	thermal rating:180°C	UL 1446	UL E201757
		GUANGDONG JINGDA REA SPECIAL ENAMELED WIRE CO.,LTD				UL E223994
9	Heat shrink tube	CHANGYUAN ELECTRONICS CO.,LTD	CB-HFT 600V	Max oper temp 125°C	UL 224	UL E180908
10	Varnish	KYOCERA CHEMICAL CORP	TVB2180T*(a)	130°C/155°C	UL 1446	UL E83702

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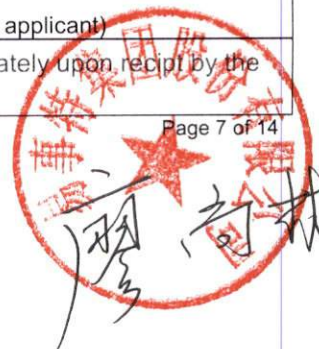
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Item No.	Object/part no.	Manufacturer/ Trademark	Type/Model	Technical Data	Standard	Mark(s) of Conformity
11	Core	KDM ANGEL-RUN POCO	KS226-060A AS571060 NPS226060	130°C	--	Tested within appliance
12	Insulation tape	BORNSUN	BN-FP	Softening Point: ≥150°C Flame Class V-0	UL 746C	UL E256822
13	Boost choke	CLICK	LC157- 346,0.58mH,±1 0%,50mohm Max	130°C	--	Tested within appliance
14	Core	KDM ANGEL-RUN	KS157-060A AS400060	130°C	--	Tested within appliance
15	Wire	PACIFIC	POLYESTER IMIDE COPPER WIRE:MW30(P EWH)	130°C	UL 1446	UL E201757
		TAI-A				UL E234896
16	Heat shrink tube	CHANGYUAN ELECTRONICS CO.,LTD	CB-HFT 600V	Max operation temp 125°C	UL 224	UL E180908
17	Varnish	KYOCERA CHEMICAL CORP	TVB2180T*(a)	130°C/155°C	UL 1446	UL E83702
18	Gasket, Silicon rubber around bottom metal enclosure	RAMPF Polymer Solutions GmbH & Co KG	PAKU-PUR32- 3250-11	Operating Temp. Range (°C): -60~+105	UL 157	UL MH30032
19	Internal fan	China Hengtai	,DA06015B12L R,12VDC,0.07 A	Rated Speed: 3200rpm Operating Temp.	UL 507	UL E254715

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				Range (°C): -10~+70		
		Yuelun Electronics Co., Ltd. (spare)	D60BM-12B	Rated Speed: 3200rpm Operating Temp. Range (°C): -10~+70		UL E189702
20	Current transformer (CT1-CT2)	LEM	HLSR10-P,LEM	Primary involved potential: 600V Operating Temp. Range(°C): -40~+105	UL 508	UL E189713
	Current transformer (CT3)	LEM	,HLSR32-P,LEM	Primary involved potential: 600V Operating Temp. Range(°C): -40~+105		
21	AC Choke	CLICK	LDT350-30-3.8A,3.8mH MIN,3.3mohm	130°C	--	Tested within appliance
22	Core	ZHONGYUAN	NC-0058-L-B	130°C	--	Tested within appliance
23	Copper wire	PACIFIC	POLYESTER ENAMELED MW35-C	200°C	UL 1446	UL E201757
		TAI-I				UL E85640
24	Epoxy	DONGGUAN EATTO	E-500	130°C	UL 746C	UL E218090
25	Margin tape	JINGJIANG YAHUA	TYPE NO:WF	130°C	UL 510A	UL E165111
26	DC Choke	CLICK	LC31-355,0.4mH Min,1.5mohm Max	130°C	--	Tested within appliance

<p>TUV Rheinland of North America, Inc.</p>	<div style="display: flex; justify-content: space-around; border-bottom: 1px solid black; margin-bottom: 5px;"> (Place) (Date) </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>(Stamp and signature of applicant)</p> </div>
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27	Core	TIANMING	M10K	130°C	--	Tested within appliance
		JIUXIN	KA100			
		DMEGC	R10K			
28	Copper wire	PACIFIC	POLYESTER ENAMELED MW35-C	200°C	UL 1446	UL E201757
		TAI-I				UL E85640
29	Margin tape	JINGJIANG YAHUA	TYPE NO:WF	130°C	UL 510A	UL E165111
30	Varnish	HANG CHEUNG PETROCHEMICAL LTD	6562*	155°C	UL 1446	UL E200154
31	Transformer (T1)	CLICK	ER28 TRANSFORMER, 1.27mH±10%, 1.62ohm MAX	130°C	--	Tested within appliance
32	-Copper Wire	PACIFIC	polyurethane copper wire	thermal rating 130°C	UL 1446	UL E201757
		TAI-I				UL E85640
		TA YA				UL E84201
		ROSHUO				UL E215691
		PENG CHING				UL E172395
33	-Bobbin	SUMITOMO BAKELITE CO.,LTD	Phenolic pm9820	150°C	UL 746C	UL E41429
34	-Insulation tape	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO.,LTD	Nonwoven cloth wf	130°C	UL 510A	UL E165111
35	-Varnish	KYOCERA CHEMICAL CORP	TVB2180T	155°C	UL 1446	UL E83702

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36	X-capacitor (C9 C23)	XIAMEN FARATRONIC CO. LTD.	MKP62,CAP=X 2,305V,2.2uF,±20%,P=22.5mm(C9)	Class: Class X2 Operating Temperature Range: -40°C ~ +110°C	UL 60384-14	UL E186600
			MKP62,CAP=X 2,305V,3.3uF,±10%,P=27.5mm,(C23)			
37	Varistor (RV1-RV4) (optional)	Matsuda	STE20D681K3 DB0FSB0,680V ,6500A	Varistor voltage: 680V Maximum continuous working voltage: AC420V DC560V Maximum peak current: 6500A Operating Temp. Range(°C): -40~+105	UL 1449	UL E330837
38	Y-capacitor (C35, C73, C90, C95, C135, C137, C165, C167, C117, C120)	Xiamen Faratronic Co. Ltd.	MKP63,CAP=Y 2,300V,4.7nF,±20%,P=10mm	Maximum continuous DC voltage: 1500V Operating Temperature Range: -40°C~+110°C	UL 60384-14	UL E186600
39	Y-capacitor (C5 C10 C58 C59 C153)	Xiamen Faratronic Co. Ltd.	MKP63,Y2,300 V,33nF,±20%,P=15mm(C5 C10)	Maximum continuous DC voltage: 1500V Operating Temperature Range:	UL 60384-14	UL E186600

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	C155, C157, C173)		MKP63,Y2,300 V,56nF,±20%,P =15mm(C58 C59)	-40°C ~ +110°C		
			MKP63,Y2,300 V,10nF,±20%,P =10mm(C153 C155, C157, C173)			
40	AC output relay (K1-K4)	PANASONIC	ALFG2PF121,1 2VDC,250VAC, 33A,UL	Surge breakdown voltage: 6000v Ambient temperature: -40° C to +85° C	UL 60947- 1, UL60947-4- 1	UL E43028
		Matsukawa (spare)	310P-1A1-F-C M05 12VDC	Surge breakdown voltage*: 6000v Ambient temperature: -40° C to +85° C	UL 60947- 1, UL60947-4- 1	UL E88991
41	Master CPU (U9)	TI	MCU,MSP430F 2252TRHAR,V QFN- 40,SMD,TI	Operating Temp. Range(°C): - 40~+105	--	Tested within appliance
42	Slave CPU (U8)	TI	CPU,TMS320F 28066PZT,LQF P-PZ-100,SMD	Operating Temp. Range(°C): - 40~+105	--	Tested within appliance
43	Photocoupler (U4)	LITEON	,LTV-816S- TA1(C),SOP- 4,SMD	Isolation Voltage(Vac):5300 Operating Temp. Range (°C): -30~+110	UL 1577	UL E113898

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		Everlight Electronics Co., Ltd. (spare)	EL817S1(C)(TU)-F	Isolation Voltage(Vac):5300 Operating Temp. Range (°C): -30~+125		UL E214129
44	Otocoupler (U28, U33)	ADI	IC,ADM2484EB RWZ-REEL7,SOIC-16	Isolation Voltage at 60 sec Vrms:5000 Max Operating Ambient Temp (°C) :105	UL 1577	UL E214100
45	PCB	Baoyuejia Electronics Co., Ltd.	PCB BYJ-4	Max Oper Temp :130°C Flame Class:V-0	UL 796	UL E230225
46	PV input wire	ZHONGLI SCITECH GROUP Co.,Ltd.	UL10269,12A WG,105 °C,1000V	Rated Voltage :1000V Withstand voltage AC 3kV/1min) Operating Temp. Range (°C): -10~+105	UL 758	UL E156525
	AC output wire	ZHONGLI SCITECH GROUP Co.,Ltd.	UL10269,10A WG,105 °C,1000V	Rated Voltage :1000V Withstand voltage (AC 3kV/1min) Operating Temp. Range(°C): -10~+105		
47	BUS capacitor	AIHUA GROUPO.,LTD	ELT2FM122R6 0KT,315V,1200 uF,20%,5000h	Rated Voltage (Vdc):315V Surge Voltage(Vdc):365v Operating Temp. Range(°C):	--	Tested within Appliance

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Item No.	Object/part no.	Manufacturer/ Trademark	Type/Model	Technical Data	Standard	Mark(s) of Conformity
				-25~+105		
			ELT2FM122R6 0KT,315V,1500 uF,20%, 5000h	Rated Voltage (Vdc):315V Surge Voltage(Vdc):365v Operating Temp. Range(°C): -25~+105		
48	DC filter capacitor (C91 C171)	Xiamen Faratronic Co. Ltd.	C3D2K106JB0 B402,10uF,±5 %,800V,P=27.5 mm	Rated voltage:800V Voltage Proof:1200V Operating temperature: -40°C ~ +105°C	UL 810	UL E256238
49	Capacitor (C175 C87)	SHENGZHEN SURONG CAPACITORS CO.,LTD	CBB21 630V 684 J	Operating Temperature Range: -40°C ~ +85°C Rated voltage:630V	--	Tested within Appliance
) SONGTIAN ENTERPRISE CO., LTD(spare)	B22J684JS140 220195115EOY	Operating Temperature Range: -40°C ~ +85°C Rated voltage:630V	--	Tested within Appliance
50	C100	Xiamen Faratronic Co. Ltd.	MKP62,CAP=X 2,305V,6.8uF,± 10%,P=37.5m m	Class: Class X2 Operating Temperature Range: -40°C ~ +110°C	--	Tested within Appliance
51	IGBT (Q1,Q2,Q5,Q6 ,Q7,Q8)	INFINEON	IGBT,IKW40N6 5H5,650V,40A, PG-TO247-3	VCE :650V Ic:40A Maximum junction temperature 175°C	--	Tested within Appliance
			IGBT,IKW50N6 5H5,650V,50A, PG-TO247-3	VCE :650V Ic:50A Maximum junction temperature 175°C		

 TUV Rheinland of North America, Inc.			
	(Place)	(Date)	
(Stamp and signature of applicant)			

Note: Any errors or omissions in the CDF shall be reported to TUV Rheinland immediately upon receipt by the applicant.





Constructional Data Form for Electrical Products

(For TUV Rheinland of N.A., Inc. use only)
Certificate # US 72204227 01 File # 60418398 001

Item No.	Object/part no.	Manufacturer/ Trademark	Type/Model	Technical Data	Standard	Mark(s) of Conformity
52	IGBT (Q3,Q4)	INFINEON	IGBT,IKW40N120CS6,1200V,40A	VCE :1200V Ic:40A Maximum junction temperature 175°C	--	Tested within Appliance
		ON	IGBT,NGTB50N120FL2WG,1200V,50A,TO-247	VCE :1200V Ic:50A Maximum junction temperature 175°C		

Routine Safety Testing:

Required: Not Required: Reason: Class III product:
Other: Class I

Test Details:

Dielectric Strength:

Test Points:

Between PV terminal to Enclosure.
Between PV terminal to Communication port.
Between AC terminals to Enclosure.
Between AC terminals to Communication port.

Test Values


3140Vdc/1s
3140Vdc/1s
1700Vdc/1s
1700Vdc/1s

Ground Continuity:

Insulation Resistance:

Leakage Current:

Other:

 TUV Rheinland of North America, Inc.	(Place)	(Date)
	(Stamp and signature of applicant)	

Note: Any errors or omissions in the CDF shall be reported to TUV Rheinland immediately upon receipt by the applicant.

