

# EA20KTSI / EA25KTSI / EA30KTSI (Three-Phase)

- Compact and contemporary design
- Unmatched power density
- Highest efficiency in the industry (max. 98.9%)
- Fuseless and fanless design
- Industrial-grade high quality components
- All-round lightning protection
- IP65 waterproof and dustproof
- Smart connected



## Technical Data

MODEL	EA20KTSI	EA25KTSI	EA30KTSI
<b>INPUT (DC)</b>			
Max. input power	26 kW	32.5 kW	39 kW
Max. input voltage	1100 V		
Start-up voltage	250 V		
Rated voltage	600 V		
MPPT voltage range	200 - 950 V		
MPPT voltage range at full load	470 - 850 V		
Max. input current	22 A / 22 A	33 A / 22 A	33 A / 33 A
Max. short circuit current	24 A / 24 A	36 A / 24 A	36 A / 36 A
Number of MPPTs	2		
Max. input strings	A:2 / B:2	A:3 / B:2	A:3 / B:3
<b>OUTPUT (AC)</b>			
Rated output power	20 kW	25 kW	30 kW
Max. active power	20 kW	25 kW	30 kW
Max. apparent power	20 kVA	25 kVA	30 kVA
Max. output current	29.0 A	36.3 A	43.5 A
Rated grid voltage	230 / 400 V, 3 W + N + PE		
Grid voltage range	176 - 276 V / 304 - 480 V		
Rated grid frequency	50 / 60 Hz		
Grid frequency range	45 - 55 Hz / 55 - 65 Hz		
THD	< 3% (rated power)		
Output current DC component	< 0.5% I <sub>n</sub>		
Power factor	> 0.99 (rated power)		
Power factor adjustable	0.8 leading ~ 0.8 lagging		
<b>EFFICIENCY</b>			
Max. efficiency	> 98.9%		
European efficiency	> 98.5%		
<b>OTHERS</b>			
Protections	Anti-islanding protection, output overcurrent/overvoltage protection, leakage current protection, DC reverse polarity protection, DC/AC surge protection, ground insulation resistance detection, DC switch (standard); PID prevention and restoration (optional)		
Communications	RS485, Wi-Fi / Ethernet (optional), GPRS (optional)		
Display	LED, Bluetooth (optional)		
Self-consumption at night	< 1 W		
IP rating	IP 65		
Cooling	Natural cooling		
Isolation	Transformerless		
Standards	IEC/EN 62109-1, IEC/EN 62109-2, CEI 0-21, EN 50549-1, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4		
Operating temperature	-25°C ~ +60°C (> 45°C downgrading)		
Relative humidity	0 ~ 100% (non-condensing)		
Altitude	2000 m		
Dimensions (W x D x H) (mm)	635 x 225 x 480		
Weight (kg)	43		

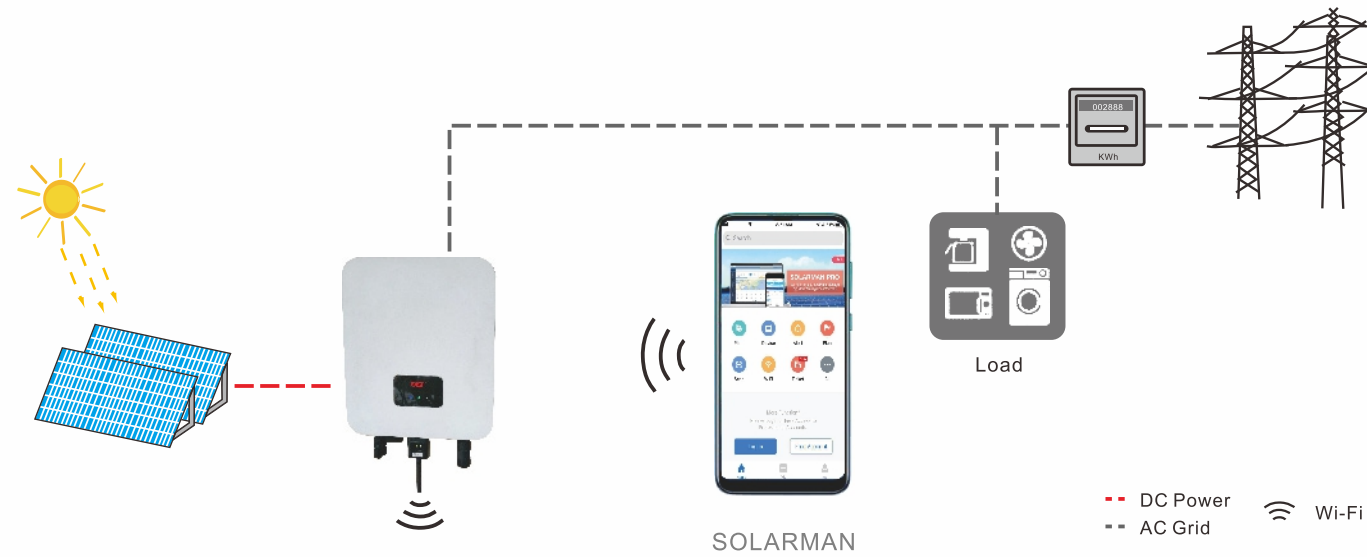
\* The AC voltage and frequency range may vary depending on specific country grid.

Disclaimer:

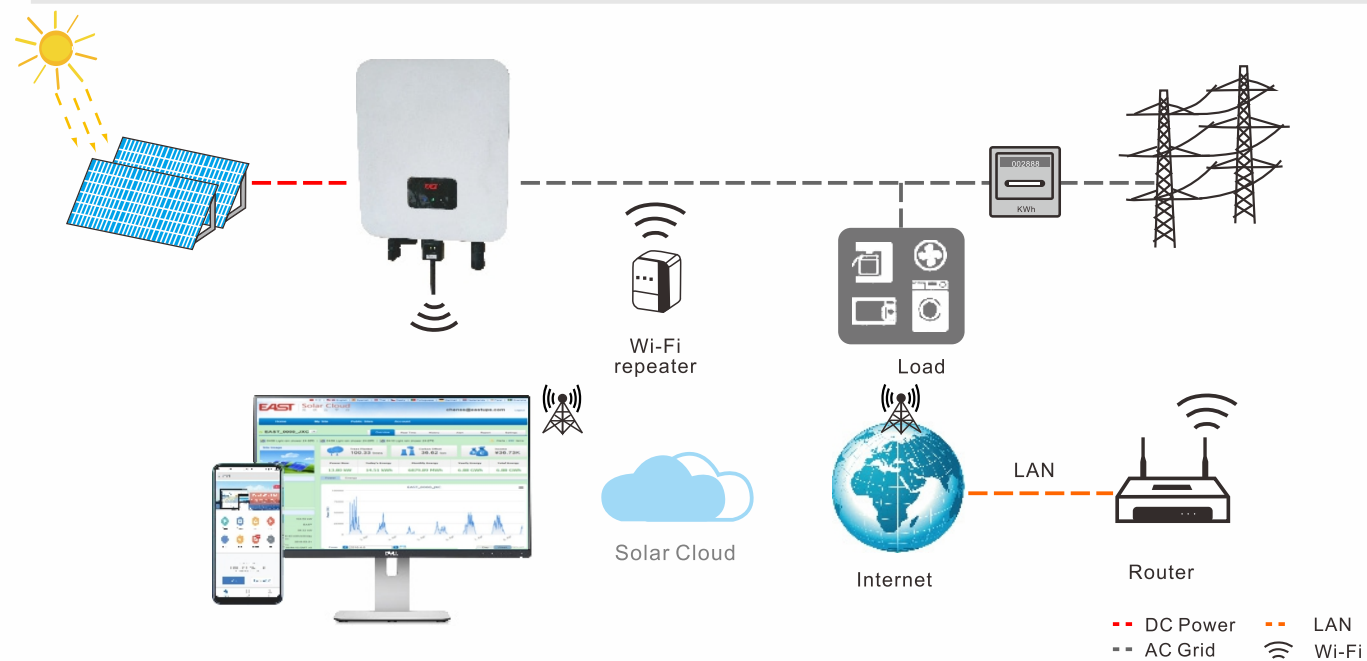
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## SMART MONITORING

Monitor your power plant anytime, anywhere



### APP System



### Cloud System

## REFERENCE



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**EAST**®  
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# Grid-connected PV Inverter



www.eastups.com

# EA15KTL-P / EA17KTL-P / EA20KTL-P / EA25KTL-P / EA30KTL-P (Three Phase)

- Well-known brands of components adopted, contributing to long service life with high reliability
- Compact and contemporary design, simplifying installation and maintenance
- Adaptive to high power PV modules with Max. string current up to 20A
- Low start-up voltage and wide MPPT voltage range
- Smart grid self-adaptive, normal power generation under a weak grid
- Support DC side over ratio of up to 150%
- Support WIFI, GPRS, RS485 communication methods
- Remote data maintenance and software upgrade with low maintenance cost



## Technical Data

MODEL	EA15KTL-P	EA17KTL-P	EA20KTL-P	EA25KTL-P	EA30KTL-P
<b>INPUT (DC)</b>					
Max. input power	22.5kW	25.5kW	30kW	37.5kW	45kW
Max. input voltage	1100Vdc				
Start-up voltage	180Vdc				
MPPT voltage range	160~1000Vdc				
Max. input current	20A / 20A	20A / 40A		40A / 40A	
Max. short-circuit current	25A / 25A	25A / 50A		50A / 50A	
Number of MPPTs	2		2		2
Max number of input strings	2 strings (1/1)		3 strings (1/2)		4 strings (2/2)
<b>OUTPUT (AC)</b>					
Rated output power	15kW	17kW	20kW	25kW	30kW
Max. apparent power	16.5kVA	18.7kVA	22kVA	27.5kVA	33kVA
Max. output current (400V grid)	23.9A	27A	31.8A	39.7A	47.7A
Max. output current (380V grid)	25A	28.4A	33.5A	41.8A	50.2A
Rated grid voltage	400V / 380V, 3W+N+PE				
Grid voltage range	320 ~ 480V				
Rated grid frequency	50Hz / 60Hz				
Grid frequency range	45 ~ 55Hz / 55 ~ 65Hz				
THDc	< 3% (rated power)				
Output current DC component	< 0.5% I <sub>n</sub>				
Power factor	> 0.99 (rated power)				
Power factor adjustable	0.8 leading ~ 0.8 lagging				
<b>EFFICIENCY</b>					
Max. efficiency	98.70%				
European efficiency	98.20%				
<b>OTHERS</b>					
Protections	DC switch, DC reserve connection protection, ground insulation resistance detection, leakage current protection, output overcurrent / overvoltage protection, anti-islanding protection, DC / AC surge protection				
Communications	RS485, GPRS (optional), WIFI (optional), 4G (optional)				
Display	LED, APP, Web				
Self-consumption at night	< 1W				
Isolation	Transformerless				
IP rating	IP66				
Operating temperature	-25 ~ +60°C (> 45°C derating)				
Operating humidity	0 ~ 100% (non-condensing)				
Cooling	Fan cooling				
Altitude	4000m (> 2000m derating)				
Standards	IEC/EN 62109-1, IEC/EN 62109-2, CEI 0-21, CEI 0-16, EN50549-1, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4				
Dimensions (W x H x D)	320 x 480 x 215 mm				
Weight (kg)	≈20kg				≈23kg

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## EA2KSI / EA2.5KSI / EA3KSI

- Compact and light weight
- Contemporary design
- High efficiency 98.2% (high efficiency model)
- Wide MPPT range 90 ~ 550 V
- Industrial-grade high quality components
- IP65 waterproof and dustproof
- Intelligent monitoring via smart phone



### Technical Data

MODEL	EA2KSI	EA2.5KSI	EA3KSI
<b>INPUT (DC)</b>			
Max. input power	2600 W	3250 W	3900 W
Max. input voltage	600 V		
Start-up voltage	120 V		
MPPT voltage range	90 - 550 V		
Rated input voltage	360 V		
MPPT voltage range at full load	150 - 480 V	190 - 480 V	230 - 480 V
Max. input current	15 A		
Max. short circuit current	20 A		
Number of MPPTs	1		
<b>OUTPUT (AC)</b>			
Max. output power	2000 W	2500 W	3000 W
Max. output current	8.7 A	10.9 A	13 A
Rated grid voltage	Single phase 230 Vac		
Grid voltage range	180 - 280 Vac		
Rated grid frequency	50 / 60 Hz		
Grid frequency range	45 - 55 Hz / 55 - 65 Hz		
THD	< 3% (rated output power)		
DC component	< 0.5% × rated output current		
Power factor	> 0.99 (rated output power)		
Power factor adjustable	0.8 leading ~ 0.8 lagging		
<b>EFFICIENCY</b>			
Max. efficiency	97.8%		
European efficiency	97.3%		
<b>OTHERS</b>			
Protections	Islanding protection, output short-circuit protection, leakage current protection, DC reverse polarity protection, DC input impedance detection, DC switch		
Communications	RS485, Wi-Fi/Ethernet (optional), GPRS (optional)		
Display	LED indicators		
Self-consumption at night	< 0.5 W		
IP rating	IP 65		
Cooling	Natural cooling		
Installation method	Wall-mounted		
DC wiring terminal	MC4		
AC wiring terminal	Plug and play		
Standards	IEC/EN 62109-1, IEC/EN 62109-2, VDE 0126-1-1, VDE AR-N-4105, AS/NZS 4777.2, CEI 0-21, EN 50438, IEC 61683, IEC 61727, IEC 62116, ABNT NBR 16149, ABNT NBR 16150		
Operating temperature	-25°C ~ +60°C (> 45°C downgrading)		
Relative humidity	0% ~ 100% (non-condensing)		
Altitude	4000 m (> 2000 m downgrading)		
Noise	< 40 dB		
Dimensions (W×D×H) (mm)	308 × 116.5 × 353		
Packaged dimensions (W×D×H) (mm)	375 × 205 × 455		
Net weight (kg)	8.0		
Gross weight (kg)	9.5		

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## EA3KSI-D / EA3.68KSI/ EA4KSI / EA4.6KSI / EA5KSI / EA6KSI / EA7KSI

- Compact and light weight
- Contemporary design
- Unmatched power density
- High efficiency 98.4% (high efficiency model)
- Wide MPPT range 90 ~ 550 V
- Industrial-grade high quality components
- IP65 waterproof and dustproof
- Intelligent monitoring via smart phone



### Technical Data

MODEL	EA3KSI-D	EA3.68KSI	EA4KSI	EA4.6KSI	EA5KSI	EA6KSI	EA7KSI
<b>INPUT (DC)</b>							
Max. input power	3900 W	4800 W	5200 W	6000 W	6500 W	7800 W	7800 W
Max. input voltage	600 V						
Start-up voltage	120 V						
MPPT voltage range	90 - 550 V						
Rated input voltage	360 V						
MPPT voltage range at full load	120 - 480 V	140 - 480 V	150 - 480 V	180 - 480 V	190 - 480 V	230 - 480 V	270 - 480 V
Max. input current	15 A x 2						
Max. short circuit current	20 A x 2						
Number of MPPTs	2						
<b>OUTPUT (AC)</b>							
Max. output power	3000 W	3680 W	4000 W	4600 W	4900 W (AUS) 5000 W (EUR)	6000 W	7000 W
Max. output current	13 A	16 A	17.4 A	20 A	21.3 A (AUS) 21.8 A (EUR)	26.1 A	30.5 A
Rated grid voltage	Single phase 230 Vac						
Grid voltage range	180 - 280 Vac						
Rated grid frequency	50 / 60 Hz						
Grid frequency range	45 - 55 Hz / 55 - 65 Hz						
THD	< 3% (rated output power)						
DC component	< 0.5% × rated output current						
Power factor	> 0.99 (rated output power)						
Power factor adjustable	0.8 leading ~ 0.8 lagging						
<b>EFFICIENCY</b>							
Max. efficiency	97.8%						
European efficiency	97.3%						
<b>OTHERS</b>							
Protections	Islanding protection, output short-circuit protection, leakage current protection, DC reverse polarity protection, DC input impedance detection, DC switch						
Communications	RS485, Wi-Fi/Ethernet (optional), GPRS (optional)						
Display	LED indicators						
Self-consumption at night	< 0.5 W						
IP rating	IP 65						
Cooling	Natural cooling						
Installation method	Wall-mounted						
DC wiring terminal	MC4						
AC wiring terminal	Plug and play						
Standards	IEC/EN 62109-1, IEC/EN 62109-2, VDE 0126-1-1, VDE AR-N-4105, AS/NZS 4777.2, CEI 0-21, EN 50438, IEC 61683, IEC 61727, IEC 62116, ABNT NBR 16149, ABNT NBR 16150						
Operating temperature	-25°C ~ +60°C (> 45°C downgrading)						
Relative humidity	0% ~ 100% (non-condensing)						
Altitude	4000 m (> 2000 m downgrading)						
Noise	< 40 dB						
Dimensions (W×D×H) (mm)	370 × 126.5 × 420						
Packaged dimensions (W×D×H) (mm)	440 × 205 × 490						
Net weight (kg)	10.9						
Gross weight (kg)	12.5						

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## EA5KTSI / EA6KTSI / EA8KTSI / EA10KTSI / EA13KTSI / EA16KTSI (Three-Phase)

- Compact and contemporary design
- Unmatched power density
- Highest efficiency in the industry (max. 98.65%)
- Fuseless and fanless design
- Industrial-grade high quality components
- All-round lightning protection
- IP65 waterproof and dustproof
- Smart connected



### Technical Data

MODEL	EA5KTSI	EA6KTSI	EA8KTSI	EA10KTSI	EA13KTSI	EA16KTSI
<b>INPUT (DC)</b>						
Max. input power	6.5 kW	7.8 kW	10.4 kW	13 kW	16.9 kW	20.8 kW
Max. input voltage	1000 V					
Start-up voltage	180 V			250 V		
MPPT voltage range	120 - 950 V			200 - 950 V		
MPPT voltage range at full load	185 - 850 V	220 - 850 V	290 - 850 V	370 - 850 V	410 - 850 V	500 - 850 V
Max. input current	14 A / 14 A			11 A × 2 / 11 A		
Max. short circuit current	15 A / 15 A			12 A × 2 / 12 A		
Number of MPPTs	2					
Number of DC inputs	A:1 / B:1			A:2 / B:1		
<b>OUTPUT (AC)</b>						
Rated output power	5 kW	6 kW	8 kW	10 kW	13 kW	16 kW
Max. active power	5 kW	6 kW	8 kW	10 kW	13 kW	16 kW
Max. apparent power	5 kVA	6 kVA	8 kVA	10 kVA	13 kVA	16 kVA
Max. output current	7.3 A	8.7 A	11.6 A	14.5 A	18.9 A	23.2 A
Rated grid voltage	230 / 400 V, 3 W + N + PE					
Grid voltage range	176 - 276 V / 304 - 480 V					
Rated grid frequency	50 / 60 Hz					
Grid frequency range	45 - 55 Hz / 55 - 65 Hz					
THD	< 3% (rated power)					
Output current DC component	< 0.5% I <sub>n</sub>					
Power factor	> 0.99 (rated power)					
Power factor adjustable	0.8 leading ~ 0.8 lagging					
<b>EFFICIENCY</b>						
Max. efficiency	98.65%					
European efficiency	98.2%					
<b>OTHERS</b>						
Protections	Anti-islanding protection, output overcurrent/overvoltage protection, leakage current protection, DC reverse polarity protection, DC/AC surge protection, ground insulation resistance detection, DC switch (standard), PID prevention and restoration (optional)					
Communications	RS485, Wi-Fi/Ethernet (optional), GPRS (optional)					
Display	LED, Bluetooth (optional)					
Self-consumption at night	< 1 W					
IP rating	IP 65					
Cooling	Natural cooling					
Isolation	Transformerless					
Standards	IEC/EN 62109-1, IEC/EN 62109-2, VDE AR-N-4105, AS/NZS 4777.2, CEI 0-21, EN 50438, IEC 61683, IEC 61727, IEC 62116, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4					
Operating temperature	-25°C ~ +60°C (> 45°C downgrading)					
Relative humidity	0 ~ 100% (non-condensing)					
Altitude	2000 m					
Dimensions (W × D × H) (mm)	515 × 166.5 × 435					
Weight (kg)	25					

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## EA5KTL-P1 / EA6KTL-P1 / EA8KTL-P1 / EA10KTL-P1 / EA12KTL-P1 / EA15KTL-P1 / EA17KTL-P1 (Three Phase)

- Well-known brands of components adopted, contributing to long service life with high reliability
- Compact and contemporary design, simplifying installation and maintenance
- Adaptive to high power PV modules with Max. string current up to 20A
- Low start-up voltage and wide MPPT voltage range
- Smart grid self-adaptive, normal power generation under a weak grid
- Support DC side over ratio of up to 150%
- Support WIFI, GPRS, RS485 communication methods
- Remote data maintenance and software upgrade with low maintenance cost



### Technical Data

MODEL	EA5KTL-P1	EA6KTL-P1	EA8KTL-P1	EA10KTL-P1	EA12KTL-P1	EA15KTL-P1	EA17KTL-P1	
<b>INPUT (DC)</b>								
Max. input power	7.5kW	9kW	12kW	15kW	18kW	22.5kW	25.5kW	
Max. input voltage	1100Vdc							
Start-up voltage	180Vdc							
MPPT voltage range	160~1000Vdc							
Max. input current	20A			20A / 20A				
Max. short-circuit current	30A			30A / 30A				
Number of MPPTs	1			2				
Max number of input strings	1 string			2 strings (1/1)				
<b>OUTPUT (AC)</b>								
Rated output power	5kW	6kW	8kW	10kW	12kW	15kW	17kW	
Max. apparent power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA	16.5kVA	18.7kVA	
Max. output current (400V grid)	8A	9.6A	12.7A	15.9A	19.1A	23.9A	27A	
Max. output current (380V grid)	8.4A	10A	13.4A	16.7A	20A	25A	28.4A	
Rated grid voltage	400V / 380V, 3W+N+PE							
Grid voltage range	320 ~ 480V							
Rated grid frequency	50Hz / 60Hz							
Grid frequency range	45 ~ 55Hz / 55 ~ 65Hz							
THDc	< 3% (rated power)							
Output current DC component	< 0.5% I <sub>n</sub>							
Power factor	> 0.99 (rated power)							
Power factor adjustable	0.8 leading ~ 0.8 lagging							
<b>EFFICIENCY</b>								
Max. efficiency	98.60%							
European efficiency	98.20%							
<b>OTHERS</b>								
Protections	DC switch, DC reserve connection protection, ground insulation resistance detection, leakage current protection, output overcurrent/overvoltage protection, anti-islanding protection, DC/AC surge protection							
Communications	RS485, GPRS (optional), WIFI (optional), 4G (optional)							
Display	LED, APP, Web							
Self-consumption at night	< 1W							
Isolation	Transformerless							
IP rating	IP66							
Operating temperature	-25 ~ +60°C (> 45°C derating)							
Operating humidity	0 ~ 100% (non-condensing)							
Cooling	Nature cooling				Fan cooling			
Altitude	4000m (> 2000m derating)							
Standards	IEC/EN 62109-1, IEC/EN 62109-2, CEI 0-21, EN50549-1, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4							
Dimensions (W×H×D)	375 x 290 x 218 mm							
Weight (kg)	≈14kg			≈15kg		≈15.7kg		

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