

## Strings Type Single Phase Photovoltaic (pv) Grid-tied Inverter

(1kW, 2kW 3kW, 4kW, 4.6kW)

### Performance Characteristics:

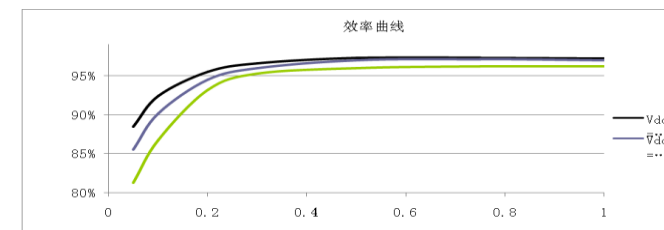
- ◆ Conversion efficiency reaches 97.8% (European efficiency is 97%).
- ◆ Efficient and high precision MPPT, tracking efficiency reaches more than 99.5%.
- ◆ DC short-circuit switch, to be safe and reliable.
- ◆ Wide range input voltage, long generation time, and high efficiency.
- ◆ Active and reactive continuing adjust, grid friendly PV inverter.
- ◆ No nighttime power self-consuming.
- ◆ Anti-islanding protection.
- ◆ Cooling method: natural convection, long life, no noise.
- ◆ Easy to install and reliable.
- ◆ Wide range of operation temperature  $-25^{\circ}\text{C} \sim +60^{\circ}\text{C}$ .
- ◆ Protection grade IP65.
- ◆ Standard communication mode: RS485, and optional Ethernet/Bluetooth is.



**Certification: CNCA/CTS 0004-2009A**

**CNCA/CTS 0006-2010**

### Efficiency Curve:



Technical Parameter		KE-GU1K5TL	KE-GU2KTL	KE-GU3KTL	KE-GU4KTL	KE-GU4K6TL
DC Input	Max.DC voltage	450V	500V	500V	580V	580V
	MPP voltage ranges	200V-400V	200V-450V	200V-450V	200V-500V	200V-500V
	Min. voltage	170V	170V	170V	170V	170V
	Max.DC capacity	1.8KW	2.3KW	3.3KW	4.5KW	5.2KW
	Max.input current	10A	12A	18A	23A	26A
	MPP trackers no. / connected strings no.	1/1	1/1	1/2	1/3	1/3
AC Output	Rated capacity	1.5KW	2KW	3KW	4KW	4.6KW
	Max. current	8A	10A	15A	22A	25A
	Rated grid voltage	230	230	230	230	230
	Tolerance	230V ±20%	230V ±20%	230V ±20%	230V ±20%	230V ±20%
	Rated frequency	50HZ	50HZ	50HZ	50HZ	50HZ
	Tolerance	47-51.5HZ	47-51.5HZ	47-51.5HZ	47-51.5HZ	47-51.5HZ
	Current THD	<3%	<3%	<3%	<3%	<3%
	DC component	<0.5%	<0.5%	<0.5%	<0.5%	<0.5%
	Power factor	0.9~0.9	0.9~0.9	0.9~0.9	0.9~0.9	0.9~0.9
	Isolation transformer	none	none	none	none	none
System Data	Max. efficiency	96.0%	96.5%	97.4%	97.8%	97.8%
	Euro efficiency	95.0%	96.0%	96.5%	97.0%	97.0%
	Protection degree	IP65	IP65	IP65	IP65	IP65
	Operating temperature	-25℃ ~+60℃	-25℃ ~+60℃	-25℃ ~+60℃	-25℃ ~+60℃	-25℃ ~+60℃
	Cooling	Natural Convection	Natural Convection	Natural Convection	Natural Convection	Natural Convection
Size	W*H*D	560*420*200	560*420*200	560*420*200	560*420*200	560*420*200
	Weight	15kg	15kg	15kg	18kg	18kg