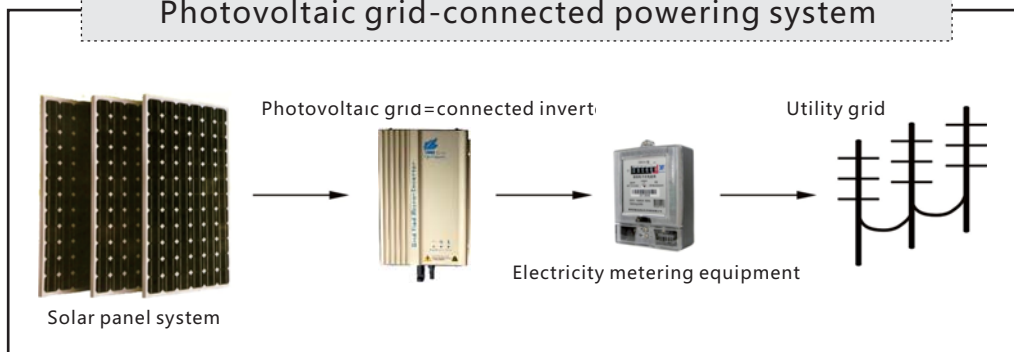


Special features

- (1). Our EST series Grid-tied inverter uses high speed and high specification MCU from USA, so as to achieve a more efficient working Condition and better result in our system.
- (2). Advanced technology of Multi Power Point Tracking (MPPT) device in our system enhanced the maximum arrays to be collected.
- (3). High efficiency of MPPT is recorded to be over 99%.
- (4). Parallel connection on input of solar energy battery enable simple adjustment of the power rate for the utility grid.
- (5). High efficiency on the design of High Frequency Transformer.
- (6). Advanced Anti-island technology.
- (7). High performance EMC technique on system protection, advanced modular design, ensuring safety and reliability on our systems.
- (8). LED indicators distinctively showing status of system.
- (9). Portable size and light weight makes our inverter easy to install, operate, and maintain.



Photovoltaic grid-connected powering system



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SERIES	EST-American Standard Series			EST-European Standard Series		
	EST-3HL1	EST-4HL1	EST-5HL1	EST-3HL2	EST-4HL2	EST-5HL2
INPUT						
recommended PV power	400Wp	500Wp	600Wp	400Wp	500Wp	600Wp
Maximum MPPT range	12-28VDC	12-28VDC	12-28VDC	12-28VDC	12-28VDC	12-28VDC
Max permitted DC Voltage input	30VDC	30VDC	30VDC	30VDC	30VDC	30VDC
Max permitted DC Current input	20A	25A	30A	20A	25A	30A
OUTPUT						
Rated output power	300Wp	400Wp	500Wp	300Wp	400Wp	500Wp
Permitted grid Voltage range	90-140VAC	90-140VAC	90-140VAC	180-260VAC	180-260VAC	180-260VAC
Permitted grid frequency range	48-63Hz	48-63Hz	48-63Hz	48-63Hz	48-63Hz	48-63Hz
THD grid current	<2%	<2%	<2%	<2%	<2%	<2%
Power factor	>0.99	>0.99	>0.99	>0.99	>0.99	>0.99
Technical Specifications						
Maximum degree of efficiency	94.5%	94.5%	94.5%	94.5%	94.5%	94.5%
European degree of efficiency	93.0%	93.0%	93.0%	93.0%	93.0%	93.0%
Protection class	IP50	IP50	IP50	IP50	IP50	IP50
Working temperature range	-20~+60 C	-20~+60 C	-20~+60 C	-20~+60 C	-20~+60 C	-20~+60 C
Permitted humidity	0-95% Unfrozen	0-95% Unfrozen	0-95% Unfrozen	0-95% Unfrozen	0-95% Unfrozen	0-95% Unfrozen
Night time power consumption	<1W	<1W	<1W	<1W	<1W	<1W
Cooling method	Fan cooling	Fan cooling	Fan cooling	Fan cooling	Fan cooling	Fan cooling
Reverse polarity protection	Fuse	Fuse	Fuse	Fuse	Fuse	Fuse
Short circuit protection	Fuse	Fuse	Fuse	Fuse	Fuse	Fuse
Anti-island protection	VAC;FAC	VAC;FAC	VAC;FAC	VAC;FAC	VAC;FAC	VAC;FAC
EMC Compliance:	EN61000-6-1 EN61000-6-3	EN61000-6-1 EN61000-6-3	EN61000-6-1 EN61000-6-3	EN61000-6-1 EN61000-6-3	EN61000-6-1 EN61000-6-3	EN61000-6-1 EN61000-6-3
Safety Standards:	DIN EN50178 DIN VDE0126	DIN EN50178 DIN VDE0126	DIN EN50178 DIN VDE0126	DIN EN50178 DIN VDE0126	DIN EN50178 DIN VDE0126	DIN EN50178 DIN VDE0126
Mechanical Specifications						
Product dimension (LxWxH)	222*162 *55MM	222*162 *55MM	222*162 *55MM	222*162 *55MM	222*162 *55MM	222*162 *55MM
Weight	1.3KG	1.3KG	1.3KG	1.3KG	1.3KG	1.3KG
Retail box dimension						
Outer carton dimension						
Outer carton gross weight						