

## Three Phase Off grid inverter

HES Three Phase Off grid Inverter ,designed and manufactured according to new energy generating system, off grid inverter is the core component of photovoltaic power generating system.

It converts DC to AC mainly used in the fields of PV power plant, wind power plant, wind solar oil storage complementary power generating system and solar home system. High efficiency and superior performance can guarantee absolute stability. It is suitable for areas without electricity like mountain, pastoral, border and island.

### Features

- Advanced DSP digital control technology
- Excellent industrial ambient protection performance
- Easy operation for Human voice prompts and big LCD screen
- Powerful network remote monitoring
- Many flexibly configuration
- Easy maintenance for ventilation and internal modular design



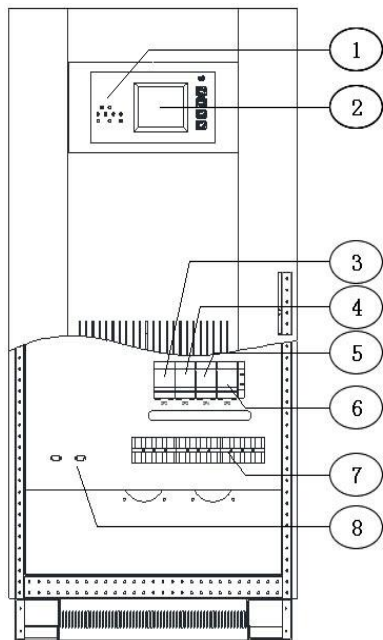
### Applications

Office / Power station

## Specification

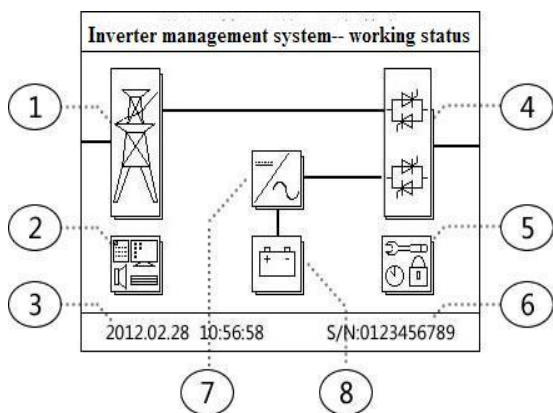
Model	TPI 220 (240)				TPI 360 (384)					
Rated power （W）	10K	20K	30K	40K	60K	80K	100K	120K	160K	200K
DC voltage	220 (240) VDC(rated voltage)					360（384）VDC( rated voltage)				
Phase	Tri-phase+N+G									
Rated voltage	380VAC±1%（steady-state load），380VAC±3%（fluctuation of load）									
Rated frequency	50 or 60Hz±0.05%									
Frequency stability	<±0.05%									
Frequency stability:when synchronous	<±5%									
Crest factor	3： 1									
Output wave	Pure sine wave									
THD	linear load<3%, un-linear load<5%									
Dynamic load voltage transient(0-100% jump)	<±5%									
Recovery time	<10ms									
Balanced load voltage	<±1%; <±5%（un-balanced load voltage）									
Overload capacity	125% 10min, 150% 1min									
Inverter efficiency	>90%									
communication interface	RS232,（485, Network remote, optional）									
working temperature	0～40℃									
Relative humidity(non condensation)	30%～90%									
Max.altitude	<1000mts(decrease 1% when the hight increase every 100mts,max.5000mts)									
cooling method	forced cooling									
noise dB	45～55									
Case color	Black(optional)									
Input cable	bottom/front									
easy maintenance	front/top/left and right side all can be opened									
Weight(kg)	220	300	400	480	750	900	1000	1200	1400	1800
Dimension W×D×H（mm）	480*840*1228		765*640*1610		1040*815*1735			1105*900*1810		1490*1910

## Product Introduction



- (1) LED status instructions--indicating the working status
- (2) LCD display-- showing all kinds of data
- (3) By-pass switch--controlling the by-pass input (A type)
- (4) Output switch-- controlling the output
- (5) Battery switch--controlling the battery input
- (6) Repair the machine by-pass switch--controlling the AC by-pass (A type)
- (7) Line bank-- connecting input, output, battery and earth line
- (8) RS232 communication interface, dry contact interface and etc.

## Display Information



- (1) Press and check the input status and data
- (2) Press check the system basic status and event log information.
- (3) System real -time date and time
- (4) Press and check the output status and data.
- (5) Press and revise the system time, language, clear log, and change the password.
- (6) Inverter production serial number.
- (7) Press and check the inverter working status and data.
- (8) Press and check the battery data.

All specific cations and information are given with good intent, errors are possible and products may be subject to change without notice. Pictures may differ from actual products depending on local market re-quirements and regulations. A solar power system consists of a controller, inverter and load end. Multiple controllers/inverters are shown to represent the wide range that HES has.