

## ON/OFF GRID HYBRID SOLAR INVERTER **STG-PH Series**

## 3.6~6KW | Single Phase | IP66 | WIFI | BMS

This is a flexible and intelligent energy storage solar inverter with a wide range of MPPT Voltage.

Combining functions of off grid and on grid. This hybrid solar inverter can power all kinds of appliances in home or office, and can also be used in power stations.



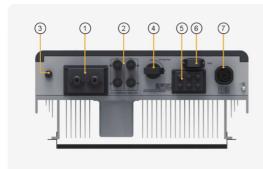






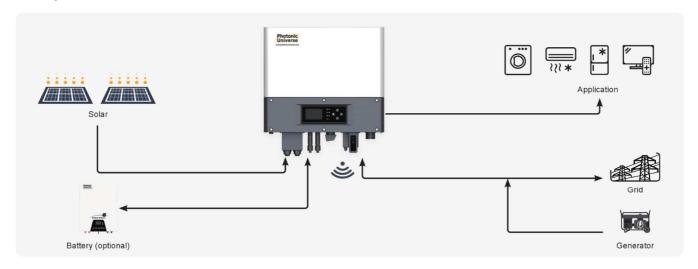
- Multiple operation modes: Grid-tie,off grid with storage backup
- IP66 water-proof and dust-proof
- MPPT voltage range 120-500V
- Support LCD display&Smart LCD setting
- Available Export control CT sensor function
- Multiple communications:USB,RS485,GPRS and wifi etc
- Full protection function:Over-voltage,over-frequency, over-current, over-temperature,and AC short-circuit automatic protection
- Intelligent BMS battery management function
- Fanless low-noise design
- Wifi monitoring

## **Back panel description**



- 1. Battery input terminals and cover
- 2. PV input terminals
- 3. Breather valve
- 4. PV input switch
- BTS terminals, BMS terminals, load monitor terminals, dry contact terminals, CAN communication terminals, USB terminal and cover
- 6. Wi-Fi com module
- 7. AC input & output terminals and cover

## Solar system connection





MODEL	STG-PH3600-48	STG-PH4000-48	STG-PH4600-48	STG-PH5000-48	STG-PH6000-4	
Rated power	3600W	4000W	4600W	5000W	6000W	
Nominal Battery System Voltage			48V			
PV INPUT(DC)						
Maximum recommended DC power	4700W	5200W	6000W	6500W	7800W	
Nominal DC operating voltage			360V			
Maximum DC voltage	500V					
MPPT voltage range	120V~500V					
Maximum input current	15A / 15A					
No.of MPP tracker	2					
Strings per MPP tracker	1					
INVERTER INPUT/ OUTPUT(AC)						
Nominal AC input/ output power	3600W	4000W	4600W	5000W	6000W	
Nominal input/ output voltage; range	220/230/240V;180-280V					
AC grid frequency; range	50/60Hz; 45~55/55-65Hz					
Nominal input/ output current	15.6A	17.5A	20A	21.7A	26A	
Maximum input/ output current	16A	18.1A	20.8A	22.7A	27.2A	
Inrush current (spike/duration)	57.5A/5.2us					
Total harmonic distortion i(THDi)	<3%					
Power factor at rated power	1					
Displacement power factor	0.8leading~0.8lagging					
Grid type			Single phase			
BATTERY MODE OUTPUT(AC)						
Output Rated Power	3600W	4000W	4600W	5000W	6000W	
Nominal output voltage; accuracy range	230±1%					
Output ferequency; accuracy range	50/60Hz (optional)±0.2%					
Output rated current	15.6A	17.5A	20A	21.7A	26A	
Output waveform			Pure sine wave			
Peak power	5400W,10s	6000W,10s	6900W,10s	7500W,10s	9000W,10s	
Total harmonic distortion v (linear load)			<3%			
BATTERY & CHARGER						
Battery type	Lead-acid battery / Lithium battery					
Battery voltage	48V					
Battery voltage range	40~60V					
Charging curve	3-stage adaptive with maintenance					
Protection	Over-current protection / Over-temperature protection					
Maximum charging power	3600W	4000W	4600W	5000W	6000W	
Maximum charging currernt	75A	85A	95A	100A	125A	
EFFICIENCY						
Maximum efficiency	97.1%					
Euro-efficiency		96.5%				
MPPT efficiency	99.8%					
PROTECTION DEVICES						

DC switch rating for each MPPT; Grid monitoring; Output over current protection; Output overvoltage protection-varistor; Ground fault monitoring; Integrated all-pole sensitive leakage current

GENERAL			
Machine Dimension (W*H*D)(mm)	420*480*215		
Package Dimension (W*H*D)(mm)	610*327*595		
N.W(kg)	30		
G.W(kg)	32		
DC connection	H4 / MC4		
AC connection	Terminal Block		
Display	LED+LCD		
Communication interfaces	Wi-Fi / USB / GPRS / RS485		
Ingress protection rating	IP66		
Humidity	0~95% RH(No codensing)		
Operating temperature range	-25°C+60°C With derating above 45°C		
Cooling concept	Natural		
Altitude	<3000m		
CERTIFICATION & CTANDARDS			

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