

Solar Inverter

PHOTON PV7000

HYBRID

- Dual outputs for smart load management
- Detachable LCD panel
- Parallel operation up to 9 units
- Reserve BMS communication
- User-adjustable charging current and voltage



CHARGING
-YOUR-
FUTURE

PHOTON

www.bhsolar.net

PHOTON PV 7000



DUAL OUTPUT



- Maximum PV input current 27A
- Dual outputs for smart load management
- Built-in WiFi for mobile monitoring (application available)
- Programmable supply priority for pv battery or grid
- User-adjustable charging current and voltage
- Programmable multiple operation modes (Grid-Tie, OFF-Grid and Grid-Tie with backup)
- Detachable LCD panel
- Supports USB OTG function
- Reserve BMS communication
- Parallel operation up to 9 units

INFINISOLAR VIII TWIN ON-GRID INVERTER WITH ENERGY STORAGE SPECIFICATION

MODEL	PHOTON PV 7000
PHASE	1-Phase In / 1-Phase Out
MAXIMUM PV INPUT POWER	7000W
RATED OUTPUT POWER	6000W
MAXIMUM CHARGING POWER	6000W
GRID-TIE OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	120 VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1/ 27A
GRID OUTPUT (AC)	
Nominal Output Voltage	220 / 230 / 240 VAC
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)
Nominal Output Current	26A
Power Factor	>0.99
EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	95%
OFF-GRID OPERATION	
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC (Selectable)
Frequency Range	50Hz / 60Hz (Auto Sensing)
Maximum AC Input Current	40A
PV INPUT (DC)	
Maximum DC Voltage	500 VDC
MPP Voltage Range	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1/ 27A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	220 / 230 / 240 VAC
Output Waveform	Pure Sine Wave
Efficiency (DC to AC)	93%
HYBRID OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	120 VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 27A
GRID OUTPUT (AC)	
Nominal Output Voltage	220 / 230 / 240 VAC
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)
Nominal Output Current	26A
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC
Maximum AC Input Current	40A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	220 / 230 / 240 VAC
Efficiency (DC to AC)	93%
BATTERY & CHARGER	
Nominal DC Voltage	48 VDC
Maximum Solar Charging Current	120A
Maximum AC Charging Current	120A
Maximum Charging Current	120A
GENERAL	
PHYSICAL	
Dimention, D x W x H (mm)	140 x 295 x 468
Net Weight (kgs)	14
INTERFACE	
Parallel Function	Yes, 9 Units
Communication Port	USB, RS-232, Dry Contact and WiFi
ENVIRONMENT	
Humidity	0 ~ 90% RH (No Condensing)
Operating Temperature	-10°C to 50°C

Product specifications are subject to change without further notice.