



**ALPHA  
OUTBACK  
ENERGY**

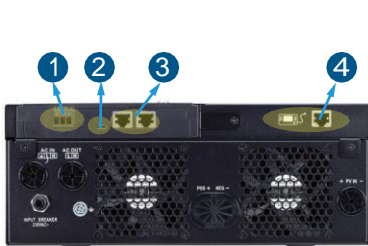


# SPC III 6000-48

## Solar Off Grid-Hybrid Inverters

### Features

- ① Output Power Factor 1
- ② Built-in MPPT Charge Controller
- ③ PV Array Open Circuit Voltage up to 500VDC
- ④ Up to 6000W PV Array Power
- ⑤ Detachable LCD control module with various communications. Can be turned to remote panel.
- ⑥ Built-in WiFi or Bluetooth for mobile monitoring (App is available)
- ⑦ Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- ⑧ Lithium-ion battery compatibility
- ⑨ Replaceable fan design for ease of maintenance
- ⑩ Battery Independency: Supply load from Grid or PV, even battery is not available
- ⑪ Configurable AC/PV output usage timer and prioritization
- ⑫ Selectable high power charging current
- ⑬ Selectable input voltage range for home appliances and personal computers
- ⑭ Compatible to Utility Mains or generator input
- ⑮ Auto restart while AC is recovering
- ⑯ Cold start function when grid is not available



① Dry contact



② USB On-the-Go function



③ Reserved communication port

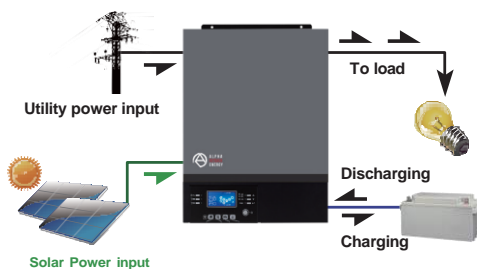
(RS-485, CAN-BUS or RS-232) for BMS



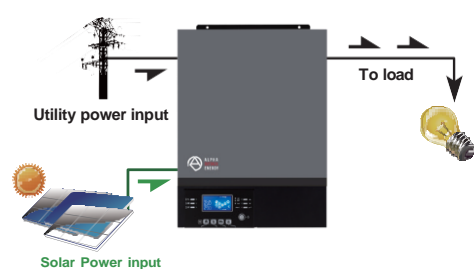
④ Communication for Remote panel



### With battery connected



### Without battery connected





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**MODEL** **SPC III 6000-48**

Rated Power 6000VA/6000W

**INPUT**

Voltage 230Vac  
 Selectable Voltage Range 170-280 VAC (For Personal Computers) ; 90-280 VAC (For Home Appliances)  
 Frequency Range 50 Hz/60 Hz (Auto sensing)

**OUTPUT**

AC Voltage Regulation (Batt. Mode) 230Vac +/- 10%  
 Surge Power 12000VA  
 Efficiency (Peak) 93%  
 Transfer Time 15 ms (For Personal Computers) : 20 ms (For Home Appliances)  
 Waveform Pure sine wave

**BATTERY**

Battery Voltage 48 Vdc  
 Floating Charge Voltage 54 Vdc  
 Overcharge Protection 63 Vdc

**SOLAR CHARGER & AC CHARGER**

Solar Charger Type MPPT  
 Maximum PV Array Power 6000W  
 MPP Range @ Operating Voltage 120 ~ 450 VDC  
 Maximum PV Array Open Circuit Voltage 500 VDC  
 Maximum Solar Charge Current 120A  
 Maximum AC Charge Current 100A  
 Maximum Charge Current 120A

**PHYSICAL**

Dimension, D x W x H (mm) 115 x 300 x 400  
 Communication Interface USB/RS232/RS485/WiFi/Dry-cont  
 Net Weight (kgs) 10

**ENVIRONMENT**

Humidity 5% to 95% Relative Humidity (Non-condensing)  
 Operating Temperature -10°C to 50°C  
 Storage Temperature -15°C to 60°C

All information contained in this document is subject to change without notice.



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