

Power

Off-Grid Inverter SPCII-M

Stackable All-In-One Solar Power Converter

- Pure sine wave inverter
- Output Power Factor up to 1
- Output Power up to 5000 Watts
- Parallel capability up to 9 units
- Built-in MPPT up to 80A Charge Controller
- Up to 80A maximum AC charge current
- PV Array Open Circuit Voltage up to 450VDC
- Up to 4500W PV Array Power
- Overload and short circuit protection
- Configurable AC/PV input priority via LCD setting
- Selectable charging current based on applications
- Selectable input voltage range for home appliances and personal computers
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Remote monitoring options (GPRS or WIFI)
- Cold start function



Model: SPCII-M 5000-48

Alpha & OutBack Energy's SPCII-M is a feature rich off-grid inverter, growing with your unique demands.

SPCII-M is easily field-upgradable. Up to 9 units can be connected in parallel to increase the power up to 45kW. Its transformerless design provides reliable power conversion in compact size. SPCII-M is worry free to start up inductive loads such as refrigerators, motors, pumps, laser printers etc., as well as electronic loads like TVs and computers.

SPCII-M series offers a high degree of customer convenience through its diverse remote monitoring options (GPRS, WIFI, ModBus, SNMP) and its user-friendly LCD.



SPCII-M Off-Grid Inverter

Technical Data

Model	SPCII-M 3000-24	SPCII-M 4000-48	SPCII-M 5000-48
Rated Power	3000VA / 2400W	4000VA/4000W	5000VA/5000W
Parallel Capability	Yes, up to 9 units		
INPUT			
Voltage	230VAC		
Selectable Voltage Range	170-280VAC (for personal computers) / 90-280VAC (for home appliances)		
Frequency Range	50/60Hz (autosensing)		
OUTPUT			
AC Voltage Regulation (Batt. Mode)	230VAC \pm 5%		
Surge Power	6000VA	8000VA	10000VA
Efficiency (Peak)	90%	93%	90%
Transfer Time	10ms (for personal computers) / 20ms (for home appliances) Typical transfer time for parallel operations: 30ms		
Waveform	Pure Sine Wave		
BATTERY			
Battery Voltage	24VDC	48VDC	48VDC
Floating Charge Voltage	27VDC	54VDC	54VDC
Overcharge Protection	30VDC	60VDC	63VDC
SOLAR CHARGER & AC CHARGER			
Solar Charger Type	MPPT		
Maximum PV Array Power	1000W	4000W	4500W
MPPT Range @ Operating Voltage	30VDC - 80VDC	60VDC-115VDC	120VDC-430VDC
Maximum PV Array Open Circuit Voltage	100VDC	145VDC	450VDC
Maximum Solar Charge Current	40A	80A	80A
Maximum AC Charge Current	60A	60A	80A
Maximum Charge Current	100A	140A	80A
PHYSICAL			
Dimension (D x W x H) mm	100x272x385	120x295x468	
Net weight kg	7,5	12,5	11
Communication	USB / RS232 / ModBus (Box) / GPRS (Box) / WIFI (Box) / Dry Contact / SNMP (Box)		
OPERATING ENVIRONMENT			
Humidity	5% to 95% Relative Humidity (Non-condensing)		
Operating Temperature	-10°C to 50°C		
Storage Temperature	- 15°C to 60°C		



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