

# 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		
<b>INPUT</b>			
Voltage	230VAC		
Selectable Voltage Range	170-280VAC (for personal computers) / 90-280VAC (for home appliances)		
Frequency Range	50/60Hz (autosensing)		
<b>OUTPUT</b>			
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		
<b>BATTERY</b>			
Battery Voltage	24VDC	48VDC	48VDC
Floating Charge Voltage	27VDC	54VDC	54VDC
Overcharge Protection	30VDC	60VDC	63VDC
<b>SOLAR CHARGER &amp; AC CHARGER</b>			
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
<b>PHYSICAL</b>			
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)		
<b>OPERATING ENVIRONMENT</b>			
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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