

# 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 ± 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					