

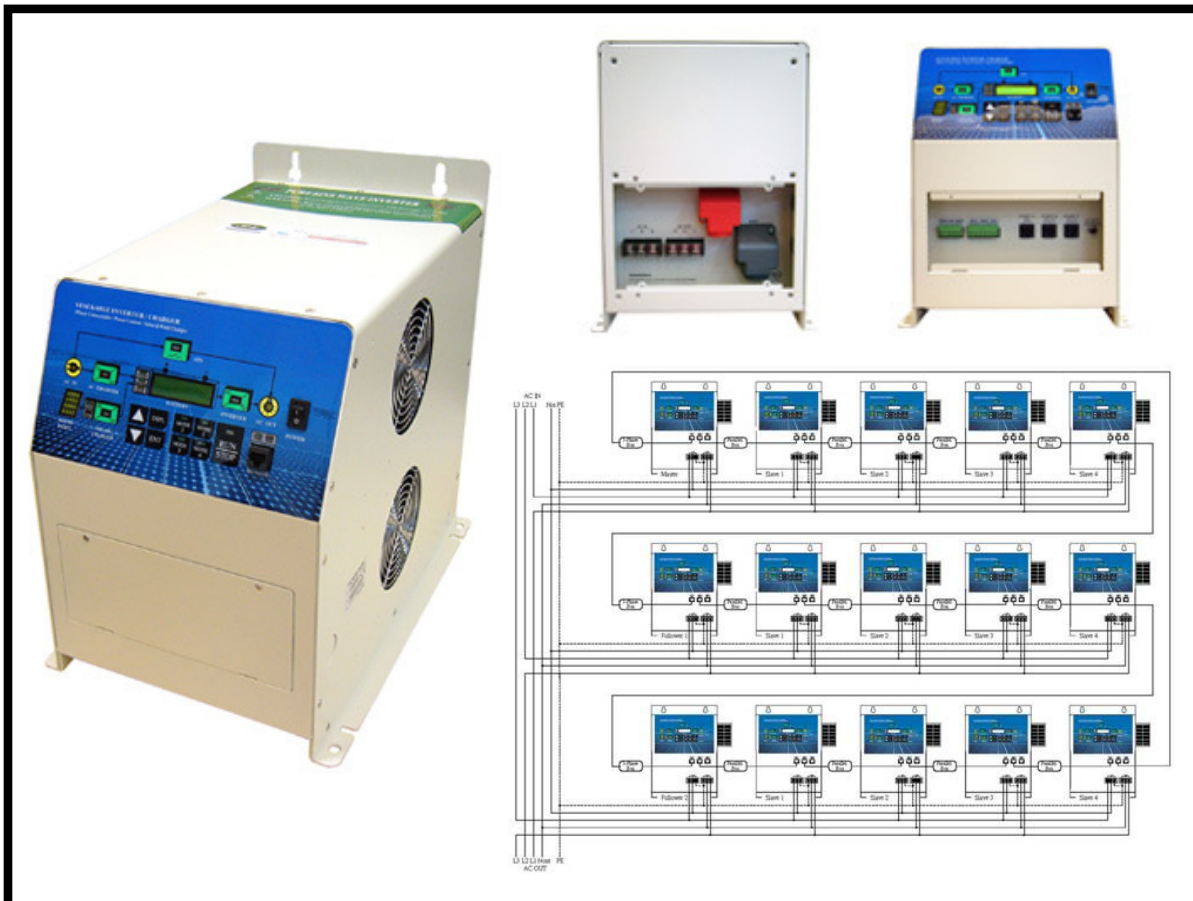
# EPMSI Series Stackable Pure Sine Wave Inverter with Built-In AC Charger

The EPMSI series of stackable Pure Sine Wave Inverter with Built-in AC Charger is a fully expandable Inverter that can plug direct to a solar system and work seamlessly with our EPMSCC Solar charge controller series.

The EPMSI series stackable inverter can support both Single or Three phase AC output where in Single phase, it can be parallel up to 5 units of inverters and while in 3 phase AC, it can parallel up to 16 units.

## Features

- Multi-functional, with intelligent shore and generator power management
- Uninterrupted AC power (UPS function)
- Virtually unlimited power thanks to parallel operation
- Three phase AC output capability
- Power Control - Dealing with limited generator, shore side or grid power
- Power Assist - Boosting the capacity of shore or generator power, an innovative feature of Four stage adaptive charger and dual bank battery charging
- Error message display
- Programmable auxiliary relay (x 3)
- Programmable input current limit for power sharing
- Capacity expansion by max. 10 sets of solar chargers (Our EPMSCC Series Solar regulator)
- Other Enclosure type or EN60529 IP rating can be customised upon request



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## Technical Specification

EPMSI Model	3000-12	3000-24	3000-48	1500-12	1500-24	1500-48
<b>INVERTER</b>						
Input Voltage Range (VDC)	9.5~16VDC / 19~32VDC / 38~64VDC					
Output Voltage (VAC)	90~120VAC / 185~240VAC					
Output Frequency	50Hz / 60Hz $\pm$ 0.1%					
Output Voltage	Pure sinewave					
THD	< 5%					
Power Factor	All loads					
Switch-on Behavior	Nominal output voltage within 20 msec.					
Cont. Output Power at 25°C(W) (cos $\phi$ =1.0)	3000W			1500W		
Cont. Output Power at 40°C(W) (cos $\phi$ =1.0)	2400W			1200W		
Maximum Power (W)	6000W			3000W		
Maximum Efficiency (%)	94	92	90	92	90	88
Zero-load Power (W)	18W			12W		
<b>CHARGER</b>						
Input Voltage Range (VAC)	100~125VAC / 200~250VAC					
Input Frequency	45~55Hz / 55~65Hz					
Power Factor	1					
Charge Characteristic	4-stage adaptive					
Maximum DC Voltage Ripple (Vrms)	< 1.25 V					
Charge Voltage "Absorption" (VDC)	14.4V / 28.8V / 57.6V					
Charge Voltage "Float" (VDC)	13.8V / 27.6V / 55.2V					
Output Charge Voltage (VDC) Min.,Max.	8V,16V / 11V,32V / 22V,64V					
Charge Current House Battery (A)	120A	70A	40A	70A	40A	20A
Charge Current Starter Battery (A)	4A					
<b>AC INPUT SWITCH</b>						
Protected by Thermal Circuit Breaker	30A			16A		
Switch-over Time Inverter to AC Input	0 msec.					
Switch-over Time AC Input to Inverter	0 msec.					
Detection Time AC Input Fault	4 msec. to 20 msec.					
Trip Level Mains to Inverter	90VAC / 180VAC					
Trip Level Inverter to Mains	94VAC / 187VAC					
Min.- Max. Frequency Range (50Hz/60Hz)	45~55Hz or 55~65Hz					
<b>GENERAL</b>						
Power Control	Yes					
Power Assist	20A			10A		
Auto Transfer Switch (A)	30A			16A		
Multi-purpose Relay	3 relays					
Protection	Output short circuit, Overload, Battery Over-voltage, Battery Under-voltage, Battery reverse polarity, Over-temperature, High ripple voltage					
Operating conditions	Operating temperature range: -20°C to +50°C, (fan assisted cooling) Humidity: max 95% (non condensing)					
Weight (kg)	28kgs			15Kgs		
Dimensions (L x W x H) mm	550 x 285 x 185 mm			380 x 285 x 185 mm		
<b>OPTIONS</b>						
Solar Charger	EPMSCC Series (Max. 10 sets for parallel connection)					
Remote Controller	Remote monitoring available, optional cables: 3M/15M					
Battery Temperature Sensor (BTS)	Compensation for the battery charging voltage and current					

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