



Excalibur Plus Series

EP1200-SR ~ EP3600-SR

The Excalibur Plus series are designed to have access to dual input source: one is AC source from a grid, the other is DC source from a solar array.

This machine is a powerful all-in-one solution, delivering unsurpassed clean true sine wave output power.

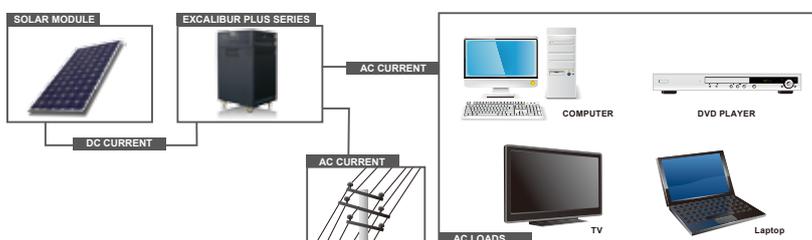
The built-in 3-stage intelligent charger automatically charges any type of batteries without the risk of an overcharge. The compact and modular design makes utility interactive installations easier and more cost effective. It is a high quality product that offers the best price-performance ratio in the industry.

Models with these output receptacles are available



Features

- Multiple microprocessor design base
- Compatible with both linear and non-linear load
- Stronger charger to support batteries of up to 130AH
- DC start and automatic self-diagnostics function
- High efficiency design to save electricity
- Low heat dissipation in extended operation
- Solar power charger with maximum 40A from a PV array
- Easy moving battery pack



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Specifications

Model		EP1200-SR	EP2400-SR	EP3600-SR
Capacity	VA / Watt	1200VA / 800W	2400VA / 1600W	3600VA / 2400W
AC Input (From Grid)				
Nominal Voltage		120V or 230V *		
Voltage Range	Acceptable Voltage Range	60~135V / 120~270V		
	Low Voltage Transfer	60V ±3% / 120V ±2%		
	Low Voltage Return	65V ±3% / 130V ±2%		
	High Voltage Transfer	135V ±3% / 270V ±2%		
	High Voltage Return	130V ±3% / 260V ±2%		
Frequency		50Hz or 60Hz		
DC Input (From PV Array)				
Nominal Voltage		24V **		
Charger Voltage		27.6V		
Solar Maximum Peak Voltage		50V		
Start-up Voltage		24V		
Reverse Polarity Connection Protection		Yes		
Backflow Protection		Yes		
Maximum Charge Current		40A		
AC Output				
Voltage		120V (110V or 115V re-settable via LCD panel) 230V (220V or 240V re-settable via LCD panel)		
Voltage Regulation (Battery Mode)		<3% RMS for entire battery voltage range		
Frequency Regulation	Line Mode	Synchronized to AC Mains		
	Battery Mode	50Hz or 60Hz ±0.1Hz		
Power Factor		0.67		
Wave Form		Pure Sine Wave		
Efficiency		>75%		>80%
Overload Capability	Line Mode	>110%, sound and visual LED alarm goes off		
	Battery Mode	110%~150% for 30 sec; >150% for 200ms		
Short Circuit Protection	Line Mode	Circuit Breaker		
	Battery Mode	Electronic Circuit		
Transfer Time				
Typical		< 8ms		
Battery				
Battery Voltage		24Vdc		
Recharging Current		>30A		>50A
Display				
LCD		Inverter status, I/P and O/P Voltage and Frequency, Load Level, Battery Voltage and Battery Charge, Temperature		
LED		Normal (Green), Warning (Amber), Fault (Red)		
Audible Alarm				
Battery Mode		Beeping every 4 seconds		
Low Battery		Beeping every second		
Inverter Fault		Continuous beep		
Overload		Beeping twice a second		
Environmental				
Operation Temperature		0-40°C ; 32-104°F		
Relative Humidity		0-95% non-condensing		
Audible Noise		Less than 55dBA		
Physical				
Inverter	Dimensions (W×H×D)	440×132×322 mm	440×132×392 mm	
	Net Weight	17 kg	21.4 kg	27 kg
Battery pack w/o battery	Dimensions (W×H×D)	450×600×400 mm		
	Net Weight	23kg		
	Batteries	12V 65AH ×4 pcs		
Battery (12V 65AH)	Dimensions (W×H×D)	166×174×349 mm		
	Net Weight	22.2 kg/pc		
Accessory				
SNMP card		Optional		

Specifications are subject to change without notice.

* 120Vac and 230Vac models are offered. They do not share a common design. 120Vac models would not work in 230V environment and vice versa.

** EP1200-SR 12V DC input is optional.

OPTI-Solar USA:
Tel: +1-909-869-5700
Fax: +1-909-869-5730
info@opti-solar.com

OPTI-Solar Australia & New Zealand:
Tel: +64-9-441-6470
Fax: +64-9-441-6490
info@opti-solar.com

OPTI-Solar Europe:
Tel: +31-40-401-50-00
Tel: +31-40-262-80-57
Fax: +31-40-254-60-06
info@opti-solar.com

OPTI-Solar Germany:
Tel: +49-7071-5495-148
Fax: +49-7071-5495-149
info@opti-solar.com

OPTI-Solar Middle East:
Tel: +9714-8819-838
Fax: +9714-8819-938
info@opti-solar.com

OPTI-Solar Japan:
Tel: +81-3-3629-5782
Fax: +81-3-5682-0652
info@opti-solar.com

OPTI-Solar Asia:
Tel: +886-2-2246-7272
Fax: +886-2-2246-7312
info@opti-solar.com

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