



- Easy to Install
- Grid-Tie Battery Back-Up
- UPS Quality Battery Back-Up
- Up to 3.0 kW of Solar
- Indoor and Outdoor Rated
- Wall or Pad Mountable



SmartRE 2500/3000
with Battery Enclosure

SmartRE is the revolutionary Smart Renewable Energy solution from OutBack Power, bringing you simplified grid-tie solar with back-up power for residential and small commercial applications. Designed with an emphasis on ease of installation, a SmartRE solution installs and operates similarly to basic grid-tie solar inverters but with the unique additional benefit of providing UPS quality battery back-up during utility outages. An integrated ultra-fast AC transfer switch guarantees that even sensitive back-up loads, like computers, never know when a utility outage occurs. Recommended AGM batteries are maintained and charged by an innovative OutBack multi-stage charging process. This valuable feature assists in providing reliable back-up power and will help extend your battery life up to 10 years.

The SmartRE is a versatile product and can be installed both indoors and outdoors. Available in power levels up to 3kW and capable of

providing as much as 69 kWh of back-up power during outages, there is a SmartRE solution for your application. With matching type 3R rainproof power electronics and battery enclosures constructed of aluminum, a SmartRE solution can be either wall or pad mounted, making this the most versatile grid-tie with battery backup solution on the market. This solution is designed and manufactured by OutBack Power to ensure that a SmartRE solution works reliably for years to come. A standard 5-year warranty, with an option to add an additional five year warranty, provides peace of mind.

Ease of installation, UPS quality battery back-up, and solutions as large as 3kW along with proven OutBack engineering makes the SmartRE system the Smart choice for a premium Grid-Interactive solar power system.

SmartRE Specifications

Models		SMARTRE 2500		SMARTRE 3000	
Continuous Power Rating		2500VA		3000VA	
Part Numbers		SRE2500-120-NA	SRE2500-120/240-NA	SRE3000-120-NA	SRE3000-120/240-NA
AC SPECIFICATIONS					
Nominal AC Voltage	Sell	120VAC	120VAC	120VAC	120VAC
	Invert	120VAC	120VAC / 240VAC	120VAC	120VAC / 240VAC
Nominal Frequency Output		60hz			
Maximum AC Current Output	Peak (1 millisecond)	70A at 120VAC	70A at 120VAC/35A at 240VAC	70A at 120VAC	70A at 120VAC/35A at 240VAC
	RMS (100 millisecond)	50A at 120VAC	50A at 120VAC/25A at 240VAC	50A at 120VAC	50A at 120VAC/25A at 240VAC
AC Overload Capability Output	Surge	6000VA		6000VA	
	5 Seconds	4800VA		5000VA	
	30 Minutes	3200VA		4000VA	
AC Output Current		20.8A at 120VAC	20.8A at 120VAC / 10.4A at 240VAC	25.0A at 120VAC	25.0A at 120VAC / 12.5A at 240VAC
Total Harmonic Distortion	Sell Current	<5%			
	Invert Voltage	2% Typical			
AC Inputs		Two 60A 120VAC AC Inputs [Grid / Generator]			
AC Transfer Switch Speed		<16 milliseconds			
Anti-Islanding Protection		UL1741-2005 / IEEE1547 Compliant			
Output Waveform		True Sine Wave			
DC SPECIFICATIONS					
Maximum PV Array Wattage - STC/Nameplate		4000 W DC STC	4000 W DC STC	4000 W DC STC	4000 W DC STC
MPPT PV Input Voltage Range		50-150 VDC VOC Including Maximum Voltage Temperature Correction			
MPPT PV Operating Voltage Range		50-145 VDC Including Maximum Voltage Temperature Correction			
Maximum PV Open Circuit Voltage		150VDC VOC			
Maximum PV Short Circuit Current		64A			
Ground Fault Protection		80A DC Breaker (Detection >0.5A)			
Electronic Overcurrent Protection		Yes			
Separate PV MPPT Inputs		1			
Maximum Battery Charger Output	AC Source (Grid or Gen.)	35A DC	35A DC	45A DC	45A DC
	DC Source (PV Array)	80A DC	80A DC	80A DC	80A DC
Battery Voltage	Nominal	48 VDC			
	Operating Range	42-68 VDC			
Recommended Minimum Battery Capacity		100 Amp hours at 48VDC / ~ 4kWH			
Temperature Compensated Battery Charging		Yes			
SOLUTION SPECIFICATIONS					
Inverter Efficiency		Up to 93%			
Nighttime Consumption		0 W AC			
AC Input and Output Terminals		Accepts #2 to #14 AWG SET/Screw Type Compression Terminals			
Information Display		Battery State of Charge, PV Active, Inverter Output, Grid Active, Generator Active			
Integrated Communications		Included MATE 2 for Remote System Information			
Operating Temperature Range		-40° C to 60° C (power derated above 25° C)			
Batteries		Not Included			
Recommended Batteries		Group 27, Group 31 and Tall Group 31 AGM or Gel Cell Batteries (Please see documentation for list of compatible models)			
Enclosure Rating		Type 3R / Outdoor Rainproof			
Enclosure Materials		Aluminum			
Electronics Enclosure Mounting Options		Wall Mount (Bracket Included), Ground Mount, Concrete Pad Mount			
Enclosure Dimensions (HxWxD)		2 Enclosures: 42.75x19x20.38"(108.58x48.26x51.75 cm)			
Weight	Power Electronics	134lbs (60.7 kg)	166 lbs (75.3 kg)	134 lbs (60.7 kg)	166 lbs (75.3 kg)
	Battery Enclosures	44 lbs (19.9 kg) (not including batteries)			
Certifications		ETL Listed to UL1741, CSA C22.2 No. 107.1			
Warranty		5 Year Limited Warranty Standard/Optional 10 Year Warranty			
Options		Matching Battery Enclosure, Battery Enclosure Paralleling Kit, Battery Installation Kit			

• All specifications subject to change without notice.



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