SMARTRE™
Grid Interactive Solution

- **Easy to Install**

- **Grid-Tie Battery Back-Up**

- **UPS Quality Battery Back-Up**

- **Up to 6.0 kW of Solar**

- **Indoor and Outdoor Rated**

- **Wall or Pad Mountable**

SmartRE 2500/3000
with Battery Enclosure

SmartRE 5000/6000
with Battery Enclosures

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 a battery life up to 10 years.

The SmartRE is a versatile product and can be installed both indoor and outdoors. Available in power levels up to 6kW SmartRE is 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 provides peace of mind.

Ease of installation, UPS quality battery back-up, and solutions as large as 6 kW along with proven OutBack engineering makes the SmartRE system the Smart choice for a premium Grid-Interactive solar power system.

OutBack POWER™

www.outbackpower.com

SMARTRE Specifications

Models		SMARTRE 2500		SMARTRE 3000		SMARTRE 5000	SMARTRE 6000
Continuous Power Rating		2500VA		3000VA		5000VA	6000VA
Part Numbers		SRE2500-120-NA	SRE2500-120/240-NA	SRE3000-120-NA	SRE3000-120/240-NA	SRE5000-120/240-NA	SRE6000-120/240-NA
AC SPECIFICATIONS							
Nominal AC Voltage	Sell	120VAC	120VAC	120VAC	120VAC	120VAC / 240VAC	120VAC / 240VAC
	Invert	120VAC	120VAC / 240VAC	120VAC	120VAC / 240VAC	120VAC / 240VAC	120VAC / 240VAC
Nominal Frequency Output		60hz					
Maximum AC Current	Peak (1 millisecond)	70A at 120VAC	70A at 120VAC/35A at 240VAC	70A at 120VAC	70A at 120VAC/35A at 240VAC	70A at 120VAC/70A at 240VAC	70A at 120VAC/70A at 240VAC
	RMS (100 millisecond)	50A at 120VAC	50A at 120VAC/25A at 240VAC	50A at 120VAC	50A at 120VAC/25A at 240VAC	50A at 120VAC/50A at 240VAC	50A at 120VAC/50A at 240VAC
AC Overload Capability	Surge	6000VA		6000VA		12000VA	12000VA
	5 Seconds	4800VA		5000VA		9600VA	10000VA
	30 Minutes	3200VA		4000VA		6400VA	8200VA
AC Output Current		20.8A at 120VAC	20.8A at 120 VAC / 10.4A at 240 VAC	25.0A at 120VAC	25.0 A at 120 VAC / 12.5 A at 240 VAC	20.8A at 120VAC/20.8A at 240VAC	25.0A at 120VAC/25.0A at 240VAC
Total Harmonic Distortion	Sell Current	<5%					
	Invert Voltage	2% Typical					
AC Inputs		Two 60A 120VAC AC Inputs [Grid / Generator]				Two 60A 120/240VAC 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	8000 W DC STC	8000 W DC STC
MPPT Input Voltage Range		50-150 VDC					
MPPT Operating Voltage Range		50-145 VDC					
Maximum Open Circuit Voltage		150VDC					
Maximum PV Short Circuit Current		64A				128A (Two at 64 A DC)	
Ground Fault Protection		80A DC Breaker (Detection >0.5A)				(2) 80A DC Breakers (Detection >0.5A)	
Electronic Overcurrent Protection		Yes					
Separate PV MPPT Inputs		1				2	
Maximum Battery Charger Output	AC Source (Grid or Gen.)	35A DC	35A DC	45A DC	45A DC	70A DC	90A DC
	DC Source (PV Array)	80A DC	80A DC	80A DC	80A DC	160A DC	160A DC
Battery Voltage	Nominal	48 VDC					
	Operating Range	42-68 VDC					
Recommended Minimum Battery Capacity		100 Amp hours at 48VDC / ~ 4kWH				200 Amp hours at 48VDC / ~ 8kWH	
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		-40º C to 60º C (power derated above 25º 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)				4 Enclosures: 42.75x19x20.38"(108.58x48.26x51.75 cm) (each)	
Weight	Power Electronics	134lbs (60.7 kg)	166 lbs (75.3 kg)	134 lbs (60.7 kg)	166 lbs (75.3 kg)	2 Enclosures: 180 lbs (81.6 kg) + 88 lbs (40 kg)	
	Battery Enclosures	44 lbs. (19.9 kgs.) (not including batteries)				2 Enclosures: 44 lbs (19.9 kg) (each) (not including batteries)	
Certifications		UL1741					
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.

Available From: