

SIMPLIPHI YOUR POWER WITH AccESS to a fully integrated energy storage & management solution with OutBack Power equipment

APPLICATIONS

SIA (Standard Interconnection Agreement) customers: ESS allows for solar PV power to be self-consumed in a DC Coupled system. AC Coupled systems provide a backup power source, and are compatible with both string inverters and micro-inverters.

NEM (Net Energy Metering) customers: add standby power to an existing net-metered solar array or peak-shaving to a new net-metered solar array.

Off-grid customers: ESS with 8 kW Solar MPPT combines power generation and energy management in a single package.

Disaster recovery customers: reliable, 98% efficient, non-toxic backup power in the event of a power outage.

SPECIFICATIONS	AC COUPLED ACCESS	DC COUPLED ACCESS
General		
Dimensions	29.5" W x 76"H (w/feet) x 20" D / 75 cm W x 193 cm H x 51 cm D	29.5" W x 76"H (w/feet) x 20" D / 75 cm W x 193 cm H x 51 cm D
Weight	600 lbs. (272.16 kg.) w/o batteries	600 lbs. (272.16 kg.) w/o batteries
Enclosure Rating	NEMA 3R Outdoor Rated	NEMA 3R Outdoor Rated
Operating Temperature	-4°F to 122°F (-20°C to 50°C)	-4°F to 122°F (-20°C to 50°C)
Mounting	Free-standing or Pad-mounted	Free-standing or Pad-mounted
Warranty Period	2 years	2 years
Inverter		
OutBack Power	Radian GS 8048A	Radian GS 8048A
Application	On or Off-Grid	On or Off-Grid
AC Connections	1 Grid Port, 1 Generator Port	1 Grid Port, 1 Generator Port
AC Output	33.3 A (240 VAC), 60 Hz	33.3 A (240 VAC), 60 Hz
Rated Output Power	8 kW Continuous	8 kW Continuous
Max Output Charging Current	115 ADC	115 ADC
CEC Weighted Efficiency	92.5%	92.5%
OutBack GS Load Center	GSLC175-AC-120/240	GSLC175-PV-120/240
Battery		
SimpliPhi Power	(x4) PHI 3.8 kWh-48V	(x4) PHI 3.8 kWh-48V
UL Rating	ETL Certified to UL 1973 Standard	ETL Certified to UL 1973 Standard
Rated kWh Capacity @ C/2	15.2 kWh	15.2 kWh
Usable kWh Capacity @ 80% DoD	12.16 kWh	12.16 kWh
Max Combined Output Power	7.6 kW DC	7.6 kW DC
Max Combined Charge Current	150 ADC	150 ADC
Charging Temperature	32°F to 120°F (0°C to 49°C)	32°F to 120°F (0°C to 49°C)
Depth of Discharge	Up to 100% DoD	Up to 100% DoD
Round Trip Efficiency	98%	98%
Cycle Life	10,000+ cycles (@ 80% DoD)	10,000+ cycles (@ 80% DoD)
Warranty Period	10 years	10 years
Solar PV		
	Select Grid-Tie Inverter	(x2) FLEXmax 80 charge controllers
Max Connected PV Power	6 kW	8 kW
Max Output / Charge Current	25 AAC @ 240 VAC	160 ADC
Max Operating PV Array Voltage	240 VAC	145 VDC
Max Open Circuit PV Array Voltage		150 VDC
Other Features		
Internet Connected Monitor/Command	Optics RE	Optics RE
Automatic Generator Start	Two-wire automatic generator start; safety relay must be used (not included)	Two-wire automatic generator start
System Display & Controller	MATE3s	MATE3s