

# SIMPLIPHI YOUR POWER WITH AccESS

to a fully integrated energy storage & management solution with OutBack Power equipment

- AccESS power security with safe, reliable, non-hazardous and efficient energy storage
- AccESS any power generation source with intelligent management
- AccESS your own power when and where you need it – inside or outside your home or business

## STANDARD FEATURES

Pre-programmed ESS for backup power, peak-shaving, and self-consumption of solar PV

Internal transfer switch automatically disconnects from the grid during power outages and provides standby power for critical circuits

Outdoor rated enclosure can be free-standing, or pad-mounted

Advanced LFP batteries with up to a 10,000 cycle / 10-year warranty

98% round trip efficiency

Remote monitoring by web browser or mobile device app

No cobalt, thermal regulation, cooling, or risk of fire

Extended operating temperature

Solar MPPT for DC-coupled or off-grid installations

Automatic Generator control for additional standby power



Manufactured in the United States

SimpliPhi Power designs and manufactures efficient, non-toxic and enduring energy storage and management systems that utilize lithium ferro phosphate (LFP). Based in California, SimpliPhi combines non-hazardous LFP chemistry with its proprietary cell and battery architecture, power electronics, battery management system (BMS) and manufacturing methods to create safe, reliable, durable and highly scalable on-demand power solutions. Available for the residential, commercial, military and emergency response markets, SimpliPhi storage solutions have been rigorously tested and passed operational performance requirements by the U.S. Army and Marine Corps. Integral to all SimpliPhi solutions is a proprietary management system that further optimizes the life-cycle, round-trip efficiency rate, performance and durability of its batteries. SimpliPhi PHI 3.5 kWh 48V 60 Amp batteries are Certified to UL 1973 Standard.

Power. On Your Terms.<sup>TM</sup>



3100 Camino Del Sol | Oxnard, CA 93030, USA | +1 (805) 640-6700 | [SimpliPhiPower.com](http://SimpliPhiPower.com)

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## APPLICATIONS

SIA (Standard Interconnection Agreement) customers: ESS allows for solar PV power to be self-consumed, while also providing a backup power source

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

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

## SPECIFICATIONS

### General

Dimensions (W x H x D)	29.5 x 76 x 20 in (w/feet), (75 x 193 x 51 cm)
Weight	600 lb (272.155 kg) (w/out batteries)
Enclosure Rating	NEMA 3R Outdoor rated
Operating Temperature	-4 to 122 °F (-20 to 50 °C)
Mounting	Free-standing or pad-mounted

### Inverter/Charger

OutBack Power	Radian GS8048A
Application	On / Off Grid
AC Connections	1 Grid Port, 1 Generator Port
AC Output <sup>1</sup>	120/240V AC, 60 Hz
Rated Power <sup>2</sup>	8 kW (7 kW <sup>2</sup> )
Max Charge Rate	115A DC, 7.2 kW (30A AC @ 240V AC)
CEC Weighted Efficiency	92.50%

### Battery

SimpliPhi Power	PHI 3.5 kWh 48V DC 60 Amp (x4)
UL Rating	UL 1973 Standard (ETL Certified)
Rated kWh Capacity @ C/2	14 kWh
Depth of Discharge <sup>3</sup>	up to 100%
Round Trip Efficiency	98%
Cycle Life	10,000+ (@ 80% DOD)
Warranty Period	10 years

### Solar

OutBack Power Charge Controller	FLEXmax 80 (x2)
Output Power (max)	8 kW
Charge Current (max)	160A DC
PV Array Voltage (max operating)	145V DC
PV Array Voltage (max open circuit)	150V DC

### Other Features

Internet Connected Monitor/Command	OPTICS RE
Automatic Generator Start	Two wire generator only
System Display & Controller	MATE3s

- Notes:
- 1. 240V AC standard; 120V AC on request.
  - 2. When operating from battery, the maximum inverter power is half the battery capacity (kWh/2h).
  - 3. Max operating conditions. Refer to Warranty for recommended conditions.
  - Specifications are typical/nominal. Subject to change without notice.