

SIMPLIPHI YOUR POWER WITH THE **ExprESS** turnkey energy storage & management

Specifications	ExprESS™ 48V
General	
Dimensions (W x H w/feet)	36 x 40 x 17 in. (w/feet) / 92 x 102 x 43 cm (w/feet)
Dimensions (W x H w/wheels x D)	36 x 41 x 17 in. (w/caster wheels) / 92 x 104 x 43 cm (w/caster wheels)
Weight	411.5 lbs. (187 kg), incl. batteries
Enclosure Rating	NEMA 3R Outdoor rated
Operating Temperature	-4 to 122 °F (-20 to 50 °C)
Mounting	Free-standing or pad mounted
Inverter	
Magnum Energy	MS4448 PAE
Application	On / Off Grid
AC Connections	(4) 115V GFCI sockets for powering devices rated up to 15 Amps
AC Output	18A x 2, 240VAC; 60 Hz
Rated Power	4.4 kW (3.8 kW max load rate)
CEC Weighted Efficiency	94%
Battery	
SimpliPhi Power	PHI 3.8 kWh 48VDC (x2)
Rated kWh Capacity	7.6 kWh
Depth of Discharge	up to 100% (80% recommended)
Round Trip Efficiency	98%
Cycle Life	10,000+ (@ 80% DOD)
Amp-Hours	150 Ah
Nominal Voltage	51.2 VDC
Max Charge Voltage	56 VDC
Minimum Operating Voltage	48 VDC (correlated with 100% DOD)
Max Combined Charge & Discharge Rate	75 ADC / 3.84 kW DC (continuous)
Warranty Period	10 years
Solar (PV inlet)	
Charge Controller	Magnum PT-100 MPPT
Max Usable PV Output	4.1 kW
Max Charge Current	75 A DC (reduced from 100 A DC)
PV Array Operating Voltage	72 to 187 V DC
Max PV Array Open Circuit Voltage	240 V DC
Other Features	
System Interface	ME-ARC