

SIMPLIFI 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