

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

Specifications	ExprESS™ 24V	ExprESS™ 48V
<b>General</b>		
Dimensions (W x H x D)	36 x 36 x 17 in. (w/feet) (92 x 92 x 43 cm)	36 x 36 x 17 in. (w/feet) (92 x 92 x 43 cm)
Weight	366 lbs. (166 kg) (incl. batteries)	411.5 lbs. (187 kg) (incl. batteries)
Enclosure Rating	NEMA 3R Outdoor rated	NEMA 3R Outdoor rated
Operating Temperature	-4 to 122 °F (-20 to 50 °C)	-4 to 122 °F (-20 to 50 °C)
Mounting	Free-standing or pad mounted	Free-standing or pad mounted
<b>Inverter</b>		
Magnum Energy	MS2024	MS4448 PAE
Application	On / Off Grid	On / Off Grid
AC Connections	(4) 115V GFCI sockets for powering devices rated up to 15 Amps	(4) 115V GFCI sockets for powering devices rated up to 15 Amps
AC Output	16 A, 120V AC, 60 Hz	18A x 2, 240VAC; 60 Hz
Rated Power	2 kW	4.4 kW (3.8 kW max load rate)
CEC Weighted Efficiency	94%	94%
<b>Battery</b>		
SimpliPhi Power	PHI 2.9 kWh 24VDC (x2)	PHI 3.8 kWh 48VDC (x2)
Rated kWh Capacity @ C/2	5.8 kWh	7.6 kWh
Depth of Discharge	up to 100%	up to 100%
Round Trip Efficiency	98%	98%
Cycle Life	10,000+ (@ 80% DOD)	10,000+ (@ 80% DOD)
Amp-Hours	230 Ah	150 Ah
Nominal Voltage	25.6 VDC	51.2 VDC
Max Charge Voltage	28 VDC	56 VDC
Minimum Operating Voltage	24 VDC (correlated with 100% DOD)	48 VDC (correlated with 100% DOD)
Max Combined Charge & Discharge Rate	90 ADC / 2.3 kW DC (continuous)	75 ADC / 3.84 kW DC (continuous)
Warranty Period	10 years	10 years
<b>Solar (PV inlet)</b>		
Morningstar Charge Controller	TriStar-45 MPPT	PT-100 MPPT
Max Input Power,	1.2 kW	2.88 to 3.84 kW
Max Charge Current	45 A DC	40 A DC
PV Array Operating Voltage	9 to 68 V DC	72 to 187 V DC
Max PV Array Open Circuit Voltage	125 V DC	240 V DC
<b>Other Features</b>		
System Interface	ME-ARC	ME-ARC