

SIMPLI PHI YOUR POWER WITH THE **ExprESS** turnkey energy storage & management

| Specifications | ExprESS™ 24V | ExprESS™ 48V |
|--------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------|
| General | | |
| Dimensions (W x H w/feet x D) | 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 | 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 |
| Inverter | | |
| 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% |
| Battery | | |
| SimpliPhi Power | PHI 2.9 kWh 24VDC (x2) | PHI 3.8 kWh 48VDC (x2) |
| Rated kWh Capacity | 5.8 kWh | 7.6 kWh |
| Depth of Discharge | up to 100% (80% recommended) | up to 100% (80% recommended) |
| 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 |
| Solar (PV inlet) | | |
| Morningstar Charge Controller | TriStar-45 PWM | PT-100 MPPT |
| Max Usable PV Output | 1.3 kW | 4.1 kW |
| Max Charge Current | 45 A DC | 75 A DC (reduced from 100 A DC) |
| PV Array Operating Voltage | 36 to 120 V DC | 72 to 187 V DC |
| Max PV Array Open Circuit Voltage | 125 V DC | 240 V DC |
| Other Features | | |
| System Interface | ME-ARC | ME-ARC |