

HOME POWER MINI

1.5 kWh

SPECIFICATIONS

Cycle life	2,500+ cycles (daily use ~6.8 yrs)
Integrated systems	AC & DC controllers, inverter, and BMS
Battery	1.5 kWh - LithiumLiFe (LiFePo4)
System efficiency	>90%
Weight	55 lbs. (25 kg)

DC CHARGER

DC inputs	Variable (solar, wind, other)
DC bypass to inverter	Yes, 1.5kw output to inverter (120/240 Vac)
MPPT	Yes (max power point tracker)
Operating Vdc range/Peak range	12-80Vdc/48-80Vdc
Max. power output to battery	300 W (10Amp max)
Over voltage protection	Yes
Low voltage protection	Yes
Max amperage protection	Yes, self-limit
Temperature protection (hot/cold)	Yes/No
Reverse polarity protection	Yes
Efficiency	>90%

FRONT PANEL

DC input	Voltage: 12-80Vdc
AC input	Voltage: 90-285Vac
DC output 1	40W (system ON) / 0W (system OFF)
DC input	Voltage: ~12Vdc Current: max. 20A/26A
DC output 2	5 Vdc, 4 x 2Amp USB

BATTERY: INCLUDES BATTERY MANAGEMENT SYSTEM

Manual disconnect system from battery	Yes
Battery type	LiFePO4
Battery standard voltage	48Vdc Nominal
Battery volume	30Ah
Battery cycle life (100% DOD; 25 degrees Celsius)	2,500+
Battery standards	UN38.3 UL1642/CE IP20

SAFETY REQUIREMENT/STANDARDS

FCC	Conform to FCC Part 15 Subpart J Class B
CE	Yes
UL	Not certified but UL standards used in design *Does not conform to UL1741 and CSA 107.1 for utility interactive applications

AC CHARGER

AC charging model	CC:Constant Current CV:Constant Voltage
Input AC voltage	90~285 Vac
Input AC frequency	50Hz OR 60Hz (±5%)
Max. power output to battery	1.8kW (120Vac), 3kW (240Vac)
Over voltage protection	Yes, auto-reset
Low voltage protection	Yes, auto-reset
Max AC amperage protection	Yes, self-limit
Temperature protection (hot/cold)	Yes/No
Efficiency	>93%
Power factor	>0.98

AC OUT: INVERTER

Output wave form/THD	PSW Pure Sine Wave/ <4%
Grid-tied/Back-feed detect and shutdown	No; off-grid (NOT designed to auto-tie into grid)
Output AC voltage	120+/-10V
Output AC frequency	60Hz
Inverter efficiency	≥88%
Max. consistent output power	1.5 kWh
Peak output power	2 kWh
Startup peak power	9.6kW <500ms
Overload protection	Yes
Over temperature protection	Yes
Input reverse connection protection	Yes
Output short protection	Yes
By-pass functionality	Yes, 120Vac (<30 ms) Grid bypass 1.8kWh Solar bypass 1.5kWh 120Vac/15Amp max; 240Vac/7.5Amp max
Low voltage protection	Yes

OTHER

Application environment	Indoor OR outdoors in NEMA 4/5 enclosure
Normal ambient temperature	22+/-5 °C
Case temperature	< 55 °C on full load discharging status
Normal ambient moisture	<= 90%
Storage temperature	-10~+60 °C
Storage moisture	<= 90%
Altitude	2,000m
Cooling	Fan and convection
Industrial design	Steel powder coated, standard rack dimensions 500mm x 500mm x 998mm
Estimated total system weight (incl. battery)	~37kg (~82lbs)