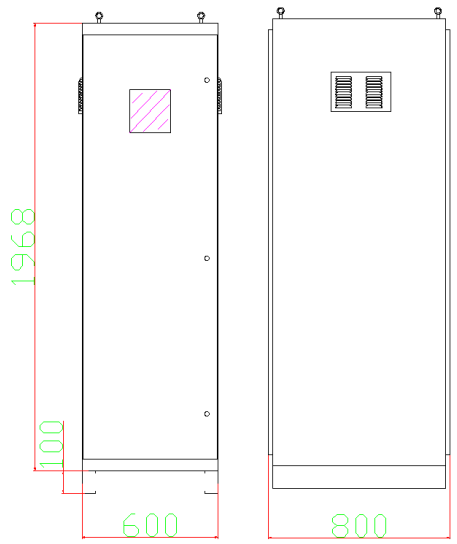

Description

This All-in-one system with 38.4kWh LiFePO4 lithium batteries and 8kW Hybrid inverter is a fully integrated energy storage and management solution. LiFePO4 lithium battery energy storage system has the advantages of large capacity, high power, small self-discharge, and good temperature resistance. It is a kind of environmentally friendly backup power system. Our ESS can provide comprehensive energy storage for residential, commercial and utility applications, and multiple generation sources: Solar, Wind, Hydro, Grid or Generators. Maximize solar PV generation by storing excess power for critical backup, evening hours and daily self-consumption to offset Time-Of-Use rates. Create resilience, energy security and daily cost savings with 98% efficient, safe and reliable access to power – 24/7.

Features

- Auto restart while AC is recovering
- Outdoor rated enclosure can be free-standing, or pad-mounted
- No cobalt, thermal regulation, cooling, or risk of fire
- Extended operating temperature
- Programmable supply priority for battery or grid
- Programmable multiple operation modes: On grid, off grid and UPS
- Configurable AC/Solar/Generator Charger priority by LCD setting
- With limit function, prevent excess power overflow to the grid
- Supporting WIFI monitoring and build-in 2 strings of MPPT trackers
  Maintenance free, no memory effect

All-in-one Battery System 8000VA 38.4kWh	
General	
Dimensions	23.62” W x 81.42”H (w/feet) x 31.50” D / 60 cm W x 206.8 cm H x 80 cm D
Weight	1323 lbs. (600 kg.)
Enclosure Rating	NEMA 3R Outdoor Rated
Operating Temperature	-4°F to 122°F (-20°C to 50°C)
Charging Temperature (batteries)	32°F to 120°F (0 °C to 49°C)
Mounting	Free-standing
Enclosure Warranty Period	2 years
Inverter	
Application	On or Off-Grid
Grid Type	Split phase, 2/3 phase, Single Phase
Output Frequency (selectable)	60 Hz or 50 Hz
Output Voltage	120/240Vac(split phase), 208Vac(2/3 phase), 230Vac(single phase)
Rated AC Output and UPS Power (W)	8000W
Max AC Output Power(W)	8800W
Peak Power(off grid)	2 times of rated power, 10 S
AC Output Rated Current(A)	33.4A/35A
Max. AC Current(A)	36.7A/38.5A
Max Continuous AC Passthrough(A)	50A
Current Harmonic Distortion	THD<3%(Linear loading<1.5%)
MPPT Efficiency	99.90%
Protection	PV Arc Fault Detection, PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Output Over Voltage Protection
Grid Regulation	UL1741,IEEE1547,RULE21,VDE 0126,AS4777,NRS2017,G98,G99
Safety Regulation	IEC62109-1, IEC62109-2
EMC	EN61000-6-1, EN61000-6-3, FCC 15 class B
Solar PV - DC Coupled	
No. of Strings per MPPT Tracker	2+2
Max Connected PV Power	10400W
Min PV Array Starting Voltage	150 VDC
PV Input Voltage (V)	370V(100V~500V)
MPPT Voltage Range	125 – 425 VDC
PV Input Current (A)	22A+22A

Battery	
Lithium Battery	38.4 kWh-48V
Rated kWh Capacity @ C/2	38.4 kWh
Usable kWh Capacity @ 80% DoD	30.72 kWh
Max Combined Output Power	20 kW DC
Max Combined Charge Current	400 ADC (limited by the inverter to 190A)
Max Combined Discharge Current	400 ADC (limited by the inverter to 190A)
Charging Temperature	32°F to 50°F (0°C to 10°C): 80A charging current 50°F to 122°F (10°C to 50°C): 200A charging current
Depth of Discharge	Up to 100% DoD
Round Trip Efficiency	98%
Cycle Life	6,000+ cycles (@ 80% DoD)