

50KW All-in-One Energy Storage System



FEATURES:

- IP55 Protection**
 Resistant to outdoor installation with strong environmental adaptability.
- Full-scenario**
 Supporting PV access, transitioning from on-grid to off-grid, and encompassing the entire spectrum of photovoltaic systems, energy storage, and generators.
- Wide Range of Applications**
 It is suitable for hybrid systems, household and commercial appliances.
- More Durability**
 Withstand high temperature.
- Minimal O&M**
 Modular design, pre-maintenance solution for easy access and O&M, and support for online monitoring and O&M.
- Smart Monitoring**
 Easily monitor your battery's status through the mobile app, which supports both Bluetooth and WiFi connections. Stay informed on your battery's health and performance in real-time.

Technology

| | |
|-----------------------------------|-------------------------------------|
| Model | 50KW/112KWH |
| Battery | |
| BatteryType | LFP |
| Battery Capacity | 314Ah |
| PACK configuration | IP16S |
| PACKQuantity | 7PACK/Cluster |
| Rated Current | 150A |
| Max.Current | 200A |
| VoltageRange | 302V-408V |
| Nominal Energy | 112.53kWh |
| AC(On-grid) | |
| RatedPower | 50kW |
| ACMaximum Current | 83.4A |
| ACRatedVoltage | 230Vac/400Vac |
| Wiring Method | 3/N/PE |
| Frequency | 50Hz/60Hz |
| PowerFactor | 0.8 leading~0.8 lagging |
| THDi | <3% |
| AC(Off-grid) | |
| RatedPower | 50kW |
| ACRatedVoltage | 230Vac/400Vac |
| AC Maximum Current | 758A |
| Wiring Method | 3/N/PE |
| Frequency | 50Hz/60Hz |
| PowerFactor | 100% |
| THDy | <3% |
| Photovoltaic | |
| Max.PV Input Power | 80W |
| Max.PV Input Voltage | 1100V |
| Start-upVoltage | 200W |
| MPPTVoltageRange | 180V-1000W |
| NumberofMppTrackers | 4 |
| Number of Strings per MPPT | 2/1 |
| Max.PV Input Current | 40A/20A |
| System | |
| Weight | 1500kg |
| Dimension(W*D*H) | 1100*1200*2350mm |
| Max.Efficiency | > 88% |
| AirConditionerPower | 3 kW(Cooling) |
| Temperature | -20°C~50 C(Derating above40°Cq) |
| Humidity | 0-95%RH(Non-condensing) |
| IngressProtection | IP55 |
| Anti-corrosion Grade | C3 |
| Cooling Method | Air Cooling |
| Noise | <=75dB |
| Altitude | 3000m(Derating above 2000m) |
| Display | Touch Screen |
| Fire Protection | Aerosol(Optional Perfluorohexanone) |
| Communication | CAN/RS485 |
| Certification | MSDS,UN38.3.CE-EMC.IEC62619 |

Unit Dimensions



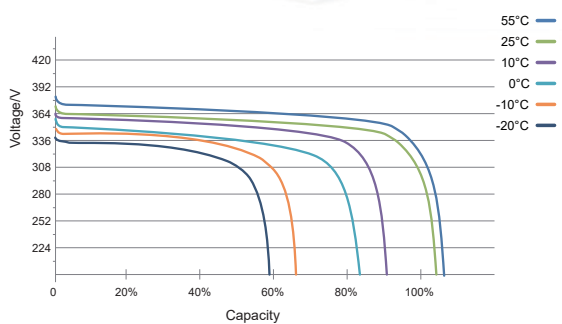
Mechanical

| | |
|-----------|---------------------|
| Length | 43.31in / 1100mm |
| Width | 42.24in / 1200mm |
| Height | 92.52in / 2350mm |
| Weight | 3306.93lbs / 1500kg |
| Terminals | M8 insert |

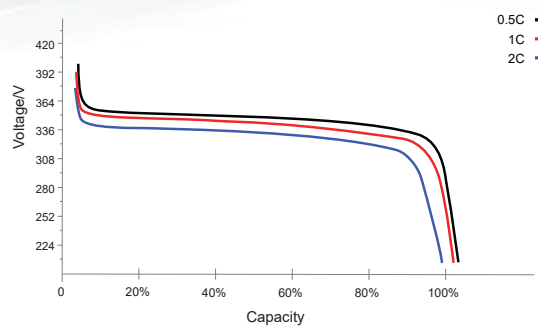
Materials

| | |
|----------------|-------|
| Case and Cover | METAL |
| Color | GRAY |

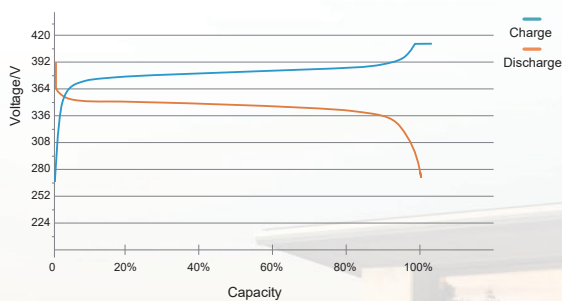
Discharge Characteristics At Various Temperatures



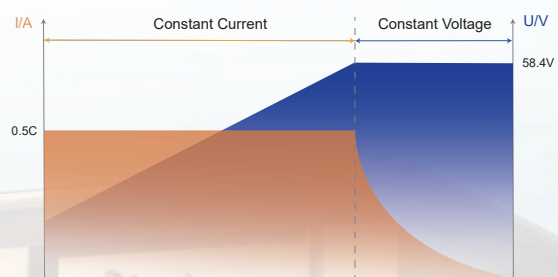
Discharge Characteristics At Various Rates



Charge & Discharge Voltage Characteristics



LiFePO4 Battery Charging Logic @0.5C



PLEASE NOTE

- ★ Lithium batteries ship under Class 9 Dangerous Goods PI 965 Section IA. Please contact your carrier company to determine their requirements for shipping. MSDS Sheets are available upon request.
- ★ Float charging is not applicable to lithium iron phosphate batteries, long-term float charging will accelerate battery aging or damage. If you have to set the float voltage for MPPT/PWM charge controller in solar system, we suggest to set it to (12V Battery)13.2V-13.6V, (24V Battery)26.4V-27.2V, (36V Battery)39.6V-40.8V, (48V Battery)52.8V-54.4V.