16H PRIME

16.0kWh Battery Pack Product Specification





Product Specification (1/2)

16H Prime

| Electrical Characteristics | | | |
|---|-----------|--|--|
| Usable Energy ¹⁾ | | 16.0 kWh @77°F (25°C) | |
| Voltage Range | Charge | 420 ~ 450 V _{DC} | |
| | Discharge | 350 ~ 410V _{DC} | |
| Max. Charge/Discharge Current | | 20A@350V | |
| Max. Charge/Discharge Power | | 7 kW | |
| Peak Power (only discharging) ²⁾ | | 11 kW for 10 sec. | |
| Peak Current (only discharging) | | 32.8A for 10 sec. | |
| Communication Interface | | RS485/CAN | |
| DC Protection | | Circuit Breaker, Fuse, DCDC converter | |
| Connection Method | | Spring Type Connector | |
| User interface | | LEDs for Normal and Fault operation | |
| Protection Features | | Over Voltage / Over Current / short circuit / Reverse Polarity | |
| Scalability | | Max. 2 in parallel | |
| (Total Energy, Max. Charge/Discharge Power) | | (32.0 kWh @77°F (25°C), 14kW) | |

| Operating Conditions | | | |
|---|-----------|--|--|
| Installation Location | | Indoor / Outdoor, Stand only | |
| Operating Temperature | Charge | 14 ~ 122°F (-10 ~ 50°C) | |
| | Discharge | -4 ~ 122°F (-20 ~ 50°C) | |
| Operating Temperature (Recommended) | | 59 ~ 86°F (15 ~ 30°C) | |
| Storage Temperature (At shipping state) | | -22 to 140°F (-30 to 60°C), acceptable for 7 days in total -4 to 113°F (-20 to 45°C), acceptable for the first 6 months -4 to 86°F (-20 to 30°C), acceptable for 7th month~12th month | |
| Humidity | | 5%~95% | |
| Altitude | | Max. 6,562ft (2,000m) | |
| Cooling Strategy | | Natural Convection | |

| Certification | | | | |
|------------------------------------|--------------|-------------------------------|--|--|
| Safety | Cell | UL1642 | | |
| | Battery Pack | UL1973 / CE / RCM / IEC 62619 | | |
| Emissions | | FCC | | |
| Hazardous Materials Classification | | Class 9 | | |
| Transportation | | UN38.3 (UNDOT) | | |
| Ingress Rating | | IP55 | | |

X Test Conditions - Temperature 77°F (25°C), at the beginning of life

- 1) DOD 100%. DC/DC converter one way efficiency 97.5%. Ambient 77°F (25°C)
- 2) Peak Current excludes repeated short duration (less than 10 sec. of current pattern).

W Usable Energy is measured under specific condition from LGES(0.3CCCV/0.3CC)

X Product specification may change without notice



Product Specification (2/2)

16H Prime

| Mechanical Characteristics | | | | |
|----------------------------|--------|---------------------|--|--|
| Dimensions | Width | 19.8 inch (504 mm) | | |
| | Height | 42.8 inch (1086 mm) | | |
| | Depth | 11.6 inch (295 mm) | | |
| Weight | | 351 lb (159 kg) | | |



