

# HV48100



## Safety-Oriented

LFP Chemistry, Grade A Cells & Field-Proven Modular BMS Built-In



## Scalable & Flexible

Increase Capacity on Demand, Ideal for Residential, Commercial & Industrial Use



## High Energy Efficiency

Increased Energy Density and Low Resistive Losses



## Powerful

High Power Output, Suitable for Applications that Require Quick Bursts of Energy



## Compatibility

Field Integrated Solutions, Wide Voltage Range Compatible with Industry Leading Inverters



## Smart

Remote Upgrading & Monitoring



## Inverter Compatibility List



# HV48100 Specifications



## HV48100 BCU (Battery Control Unit)

Controller Working Voltage  
Self-consumption Power  
Dimensions (W x D x H)  
Weight

200 V ~ 870 V  
7.56 W  
19.06 × 20.09 × 5.51 inch / 484 × 510 × 140 mm  
29.32 lb / 13.3 kg

## HV48100 BMU (Battery Module Unit)

Nominal Voltage  
Voltage Range  
Nominal Capacity  
Nominal Energy  
Continuous Discharging / Charging Current  
Chemistry  
Communication  
Dimensions (W x D x H)  
Weight

51.2 V  
47.5 V ~ 57.6 V  
100 Ah  
5.12 kWh  
50 Adc  
LFP  
CAN, RS485  
19.06 × 20.87 × 5.51 inch / 484 × 530 × 140 mm  
94.8 lb / 43 kg

## HV48100 System

Nominal System Voltage  
System Voltage Range  
Nominal System Capacity  
Nominal System Energy  
Continuous Charge / Discharge Current  
BMU Qty. (Variable)  
Communication  
Recommended Depth of Discharge  
Dimensions (W x D x H)  
Weight (Cabinet + BCU + BMU)

256 V ~ 768 V  
(47.5 V ~ 57.6 V) \* n  
100 Ah  
25.6 kWh ~ 76.8 kWh  
50 Adc  
5~15  
CAN, RS485, Dry Contact, WiFi  
90%  
23.62 × 25.20 × 61.22 inch / 500 × 640 × 1555 mm  
197.50 lbs+ 29.32 lbs +94.8 lbs \* n /  
89.60 kg +13.30 kg + 43 kg \* n  
5% ~ 80%, non-condensing  
Charge: 32 °F ~ 113 °F / 0 °C ~ 45 °C  
Discharge: 14 °F ~ 122 °F / -10 °C ~ 50 °C  
IP20  
< 13123.35 ft / 4000 m  
≥ 6000 cycles  
10 Years

Operation Humidity  
Operating Temperature

Ingress Protection  
Altitude  
Cycle Life <sup>1</sup>  
Warranty <sup>2</sup>

## Certifications

UL 9540 Ed.3(2023), UL 9540A, UL 1973, CEC, SGIP

1. Operating conditions: 77 °F ± 7 °F / 25 °C ± 4 °C, 0.5 C/0.5 C @ 90% DOD, ret @70% (EOL).  
2. 10 years or 6000 cycles (whichever comes first).

\* Note: "n" represent the quantity of BMU, from 5 to 15 pcs.

