

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



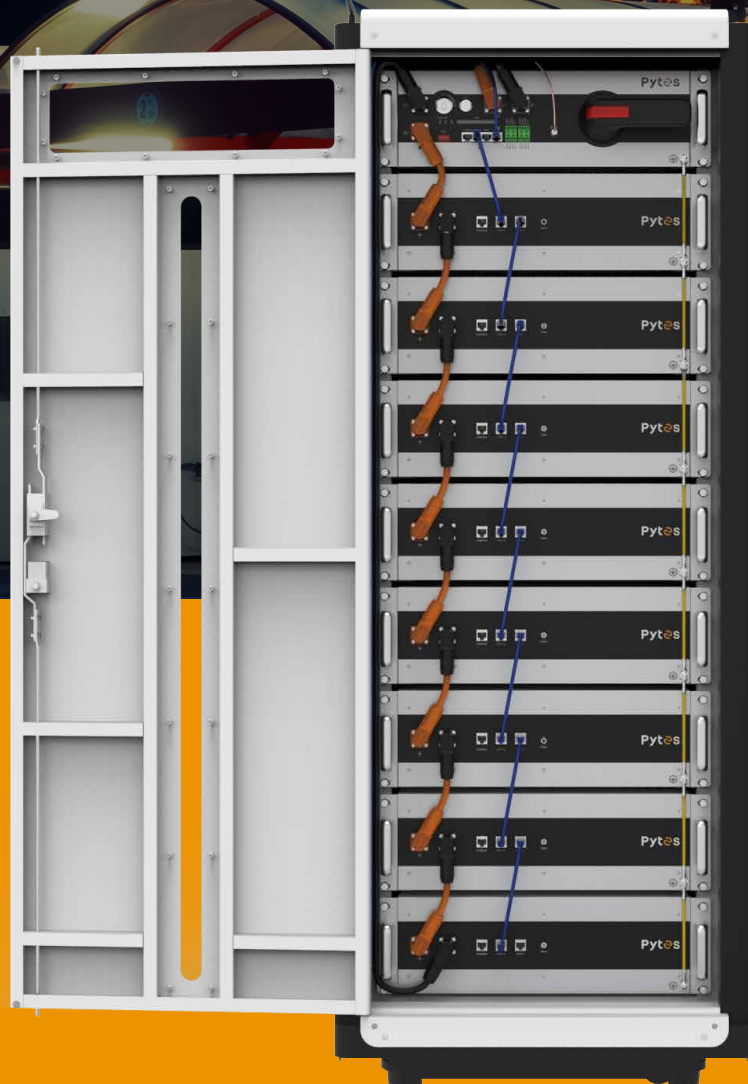
Compatibility

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	200 V ~ 870 V
Self-consumption Power	7.56 W
Dimensions (W×D×H)	19.06 × 20.09 × 5.51 inch (484 × 510 × 140 mm)
Weight (lb / kg)	29.32 / 13.3

HV48100 BMU (Battery Module Unit)

Nominal Voltage	51.2 V
Voltage Range	47.5 V ~ 57.6 V
Nominal Capacity	100 Ah
Nominal Energy	5.12 kWh
Continuous Discharging / Charging Current	50 Adc
Chemistry	LFP
Communication	CAN, RS485
Dimensions (W×D×H)	19.06 × 20.87 × 5.51 inch (484 × 530 × 140 mm)
Weight (lb / kg)	94.8 / 43

HV48100 System

Nominal System Voltage	256 V ~ 768 V
System Voltage Range	(47.5 V ~ 57.6 V) * n
Nominal System Capacity	100 Ah
Nominal System Energy	25.6 kWh ~ 76.8 kWh
Continuous Charge/ Discharge Current	50 Adc
BMU Qty. (Variable)	5~15
Communication	CAN, RS485, Dry Contact, WiFi
Recommended Depth of Discharge	90%
Dimensions (W×D×H)	23.62 × 25.20 × 61.22 inch (500 × 640 × 1555 mm)
Weight (Cabinet+BCU+BMU)	197.50 lbs + 29.32 lbs + 94.8 lbs * n / 89.60 kg + 13.30 kg + 43 kg * n
Operation Humidity	5% ~ 80%, non-condensing
Operating Temperature	Charge: 32 °F ~ 113 °F (0 °C ~ 45 °C) Discharge: 14 °F ~ 122 °F (-10 °C ~ 50 °C)
Ingress Protection	IP20
Altitude	< 13123.35 ft (4000 m)
Cycle Life ¹	≥ 6000 cycles
Warranty ²	10 Years

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.

Certifications

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

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