

Pi LV1



Features



Safe

- LFP Chemistry, Field-Proven BMS Included in Individual Module, Integrated DC Breaker & Fuse



Powerful

- Up to 10.24 kW Continuous Output



Plug-and-Play Installation (15 mins)

- Quick Connectors, Easy to Install



Scalable on Demand

- Flexible Configuration from 10.24 to 30.72 kWh per Stack, Up to 8 Stacks (245.76 kWh) per System



Outdoor Rated Enclosure

- Water & Dust Proof for Both Indoor and Outdoor Installation



Smart

- Remote Monitoring & Upgrades

Pi LV1 Specifications



Battery Module Unit (BMU)

Chemistry	LFP
Nominal Energy	5.12 kWh
Nominal Voltage	51.2 V
Voltage Range	47.5 V ~ 56.8 V
Nominal Capacity	100 Ah
Recommended Continuous Charge/ Discharge Current	50 A (2.56 kW)

Pi LV1 System

Modules ^[1]	1	2	3	4	5	6
Nominal Voltage	51.2 V					
Voltage Range	47.5 V ~ 56.8 V					
Nominal Capacity	100 Ah	200 Ah	300 Ah	400 Ah	500 Ah	600Ah
Nominal Energy	5.12 kWh	10.24 kWh	15.36 kWh	20.48 kWh	25.6 kWh	30.72 kWh
Recommended Power	2.56 kW	5.12 kW	7.68 kW	10.24 kW	10.24 kW	10.24 kW
Dimensions (W x D x H) (inch / mm)	26.8 x 9.5 x 21.3 / 681 x 242 x 540	26.8 x 9.5 x 31.5 / 681 x 242 x 800	26.8 x 9.5 x 41.7 / 681 x 242 x 1060	26.8 x 9.5 x 52.0 / 681 x 242 x 1320	26.8 x 9.5 x 62.2 / 681 x 242 x 1580	26.8 x 9.5 x 72.4 / 681 x 242 x 1840
Weight (lb / kg)	158.1 / 71.7	275.6 / 125	393.1 / 178.3	510.6 / 231.6	628.1 / 284.9	745.6 / 338.2
Communication	CAN, RS485, RS232, Dry Contact, WiFi					
Operating Temperature	Charge: 32 °F ~ 113 °F / 0 °C ~ 45 °C Discharge: 14 °F ~ 122 °F / -10 °C ~ 50 °C					
WiFi Module	Wifi Frequency Range: 2.412 ~ 2.472 GHz Wifi Max. Transmission Power < 20 dBm Bluetooth Frequency Range: 2.402 ~ 2.480 MHz Bluetooth Max. Transmission Power < 4 dBm					
Ingress Protection	IP55					
Cycle Life ^[2]	≥ 6000 Cycles					
Altitude	< 13123.35 ft / 4000 m					
Warranty ^[3]	10 Years					
Certifications	UL 9540 Ed.3 (2023), UL 9540A, UL 1973, CEC, SGIP					

[1]: 4 pcs of BMU per stack is recommended to achieve maximum power output.

[2]: Operating conditions: 77 °F ± 7 °F / 25 °C ± 4 °C, 0.5 C/0.5 C @ 90% DOD, ret @70% (EOL).

Total throughput energy of Single BMU : (51.2 V×100 Ah / 1000 × 80% × 6000 / 1000) × 90%= 22 MWh.

[3]: 10 years or 6000 cycles (whichever comes first).

Inverter Compatibility List



Pytes

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