BSLBATT®
Best Solution Lithium Battery

PowerNest LV

The system is a fully customized, factory-integrated energy storage solution. From batteries to inverters and complete system testing, everything is assembled, integrated, and verified before shipment.



- Less Wiring
- Less Commissioning
- Lower Labor Costs
- Faster Project Delivery

B-LFP48-100E

Nominal Voltage (V)	51.2
Nominal Capacity (Wh)	5120
Usable Capacity (Wh)	4864
Rated Charge Current / Power	80A / 4.096kW
Rated Discharge Current/ Power	100A / 5.12kW(25±2℃)
Max. Discharge Current / Power	120A / 6144kW, 1S
Communication	RS232, RS485, CAN, WFI, Bluetooth
Protection Level	IP20
Cyde Life	>6000 cycles, 25+2℃
Warranty	10 Years
Dimension(mm)(W*D*H)	483(442)*540*136
Weight(Kg)	43 +3%
Certification	UN38.3, CE, IEC 62619



B-LFP48-200E

Nominal Voltage (V)	51.2
Nominal Capacity (Wh)	10241
Usable Capacity (Wh)	9728
Rated Charge Current / Power	160A / 8.192kW
Rated Discharge Current/ Power	200A / 10.24kW
Max. Discharge Current / Power	220A / 11.264kW, 1S
Communication	RS232, RS485, CAN, WFI, Bluetooth
Protection Level	IP20
Cyde Life	>6000 cycles, 25+2℃
Warranty	10 Years
Dimension(mm)(W*D*H)	483(442)*590*222
Weight(Kg)	79 +3%
Certification	UN38.3, CE, IEC 62619



Model	PowerNest LV (1.7m)		
Battery side parameters			
Number of Battery PACKs in parallel	1	2	3
Battery model	B-LFP48-200E	B-LFP48-100E	B-LFP48-100E
Nominal energy (kWh)	10.24	10.24	15.36
Max charge / discharge current	160A	160A	225A
Overcurrent protection	200A	200A	350A
Dimensions (W × D × H, mm)	700 × 900 × 1700 (±5)		
Weight	290 kg ±3%	297 kg ±3%	340 kg ±3%
Inverter (optional)			
Power range	3–8 kW		

Model	PowerNest LV (2.1m)			
Battery side parameters				
Number of Battery PACKs in parallel	2	3	4	5
Battery model	B-LFP48-200E	B-LFP48-200E	B-LFP48-100E	B-LFP48-100E
Nominal energy (kWh)	20.48	30.72	20.48	25.60
Max charge / discharge current	225A	360A(180A+180A)	225A	360A(180A+180A)
Overcurrent protection	350A	500A	350A	500A
Dimensions (W × D × H, mm)	700 × 900 × 2100 (±5)			
Weight	451 kg ±3%	530 kg ±3%	465 kg ±3%	508 kg ±3%
Inverter (optional)				
Power range	3~15kW	3~18kW	3~15kW	3~18kW

Model	PowerNest LV (2.3m)		
Battery side parameters			
Number of Battery PACKs in parallel	4	6	7
Battery model	B-LFP48-200E	B-LFP48-100E	B-LFP48-100E
Nominal energy (kWh)	40.96	30.72	35.84
Max charge / discharge current	450A(225A+225A)	360A(180A+180A)	450A(225A+225A)
Overcurrent protection	500A	500A	500A
Dimensions (W × D × H, mm)	700 × 900 × 2300 (±5)		
Weight	595 kg ±3%	537 kg ±3%	580 kg ±3%
Inverter (optional)			
Power range	3~20kW	3~18kW	3~20kW

Equipment Protection

Integrated	AC/DC side short circuit and overcurrent protection, mains side leakage protection, DC switch
Surge Protection Level	AC/DC side Class II lightning protection

General Parameters

Operating Temperature	-20 °C ~ 55 °C (derating above 45 °C)	Cooling Method	Intelligent air cooling
Operating Humidity	0~ 95% RH (non-condensing)	Noise	<70 dB
Storage Temperature	0°C~35°C	Fire Protection	Hot aerosol fire extinguishing device (Optional)
Storage Humidity	10 ~ 60% RH (non-condensing)	Isolation Method	Non-isolated
Altitude	<3000m	Protection Level	IP55

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