BSLBATT®
Best Solution Lithium Battery

PowerNest LV Series

All in One LV Integrated Energy Storage System



5~15kW / 15~35kWh

PowerNest is a fully integrated solar energy solution comes pre-configured for seamless operation, including factory-set communication between the battery and inverter and pre-assembled power harness connections. Installation is straightforward—simply connect the system to your load, diesel generator, photovoltaic array, or utility grid to immediately benefit from a reliable and efficient energy storage solution.

Model	LV15	LV20	LV25	LV35
Battery Parameters				
Cell	100Ah			
Battery Model	B-LFP48-100E			
Combination	3P*16S1P	4P*16S1P	5P*16S1P	7P*16S1P
Rated Voltage	51.2V			
Voltage Range	46.4V~56V			
Rated Energy	15.36kWh	20.48kWh	25.6kWh	35.84kWh
Certificates	CE, IEC62040			

Model	LV15	LV20	LV25	LV35
PV Parameters				
Max. Input Power	6.5kW	10.4kW	13kW	22.5kW
Max. Input Voltage	500V		800V	
MPPT Voltage Range	150V~425V	150V~425V	200V~650V	160V~650V
MPPT Full Load Voltage Range	300V~425V	200V~425V	350V~650V	350V~650V
Start-up Voltage	125V		160V	
Input Rated Voltage	370V		550V	
Max. Input Current Per MPPT	13A+13A	26A+26A	26A+13A	36A+20A
Max. Short-circuit Current Per MPPT	17A+17A	44A+44A	34A+17A	54A+30A
Number Of MPPT	2/1+1	2/2+1	2/2+1	2/2+1
AC Parameters				
Rated AC Power	5kW	8kW	10kW	15kW
Max. AC Power	5.5kW	8.8kW	11kW	16.5kW
Rated AC Input Current	22.7A	36.4A	15.2A	22.8A
Rated AC Output Current	21.7A	34.8A	14.5A	21.8A
Rated AC Voltage	220V/230V 0.85Un-1.1Un		220V/380V, 230/400V 0.85Un-1.1Un	
Grid Connection	L+N+PE		3L+N+PE	
Voltage Frequency	50Hz/60Hz			
Power Factor	-0.8~0.8			
Total Current Waveform Distortion Rate	＜3%			
General Parameters				
Operating Temperature Range	-20~55℃			
Relative Humidity	≤60%			
Max. Working Altitude	2000m			
Cooling Method	Intelligent air-cooled			
Human-machine Interaction	LED+LCD			
Communication Method	RS232，RS485, CAN			
Number of Cycles	＞6000 cycles, 25℃			
Protection Level	IP54			
Dimension (mm)	1600*700*800	1800*700*800	1900*700*800	2300*700*800
Weight (Approx.)	311kg	384kg	451kg	587kg

Cabinet is Adapted To The Following Inverter Brands

victron energy, GOODWE, STUDER, solis inverters, LUXPOWER TEK, SAJ, TBB POWER, Deye, phocos, Afore, SUN SYNK, SOLAX POWER

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