



15kW / 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 straight forward—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	LV35
Battery Parameters	
Cell	100Ah
Battery Model	B-LFP48-100E
Combination	7P*16S1P
Rated Voltage	51.2V
Voltage Range	46.4V~56V
Rated Energy	35.84kWh
Certificates	CE, IEC62040

Cabinet is Adapted To
The Following
Inverter Brands



PV input

Model	LV35
Max.DC input power (kW)	15
No. of MPPT trackers	4
MPPT voltage range (V)	120~500
MAX.DC input voltage (V)	500
MAX. input current (A)	14
MAX. short circuit current (A)	22

AC output(on-grid)

Nominal output power output to grid (kVA)	10
MAX. apparent power output to grid (kVA)	11
Output voltage range (V)	(110~120)/(220~240)split phase, 240V single phase
Output frequency (Hz)	60(55 to 65)
Nominal AC current output to grid (A)	41.7
Max. AC current output to grid (A)	45.8
Max. grid passthrough current (A)	100
Output THDi	<3%

AC output(back-up)

Nominal. apparent power (kVA)	10
Max. apparent power (kVA)	11
Nominal output voltage L-N/L1-L2 (V)	120/240
Nominal output frequency (Hz)	60
Automatic switchover time (ms)	<20
Output power factor	0.8leading~0.8lagging
Output THDu	<2%

Protection

Grounding detection	Yes
Arc fault protection	Yes
Island protection	Yes
Battery reverse polarity	Yes
Insulation resistor detection	Yes
Residual current monitoring unit	Yes
Output over current protection	Yes
Back-up output short protection	Yes
Output over voltage protection	Yes
Output under voltage protection	Yes

General data

Mppt efficiency	99.9%
Europe efficiency (PV)	96.5%
PV to grid efficiency (PV)	97.2%
Battery to load efficiency	95.2%
PV to battery charing efficiency	96.1%
Grid to battery charing efficiency	95.0%
Output conduit (mm)	25.4
PV input conduit (mm)	25.4
BAT input conduit (mm)	35.4
Operating temperature range (°C)	-25~+60
Relative humidity	0-95%
Operating altitude	0~4,000m(Derating above 2,000m altitude)
Ingress protection	IP65/NEMA 3R
Built-in breaker	Optional
Weight (kg)	48kg(50kg with breaker)
Dimensions W*H*D (mm)	450 x 820 x 240
Cooling	FAN cooling
Noise emission (dB)	38
Display	LCD,Touch panel(optional)
Communication with BMS/Meter/EMS	RS485, CAN
Supported communication interface	RS485, WLAN, 4G (optional)
Self-consumption	<25W
Safety	UL1741SA all options, UL1699B, CSA 22.2
EMC	FCC part 15 class B
Support diesel generator	YES
Grid connection standards	IEEE 1547, IEEE 2030.5, Hawaii rule 14H, Rule 21 phase I,II,III

Other data

Peak power (off grid)	105%,60s / 110%,30s / 120%,10s / 150%,20ms
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