



## LITHIUM-ION BATTERIES

INV-LV-IP21 5.1  
INV-LV-IP21 11.8  
INV-LV-IP21 16



### Comprehensive Protection

- Advanced BMS with active fuse

### Optimized Energy Density

- Integrated PACK: reduced line loss, enhanced energy density

### Easy Maintenance

- Auto-networking (No DIP switches), Local monitoring mode for battery, remote monitoring mode for ESS

### Superior Performance

- Support Max. 1C charge & 1.2C discharge (INV-LV-IP21 5.1), GaN MOSFETs: 50% loss reduction, high-temp resistance

### Flexible Expansion

- Max. 32 units in parallel

### Reliable Durability

- Operates reliably in  $-20^{\circ}\text{C}$  to  $55^{\circ}\text{C}$ , natural cooling



Model	INV-LV-IP21 5.1	INV-LV-IP21 11.8	INV-LV-IP21 16
<b>Main Parameters</b>			
Battery Chemistry	LiFePO <sub>4</sub>		
Capacity	100 Ah	230 Ah	314 Ah
Scalability	Max. 32 pcs in parallel		
Nominal Voltage <sup>[1]</sup>	51.2 V		
Operating Voltage	44.8 V ~ 57.6 V		
Nominal Energy	5.12 kWh	11.8 kWh	16 kWh
Charge Current <sup>[2]</sup>	Max. Continuous	100 A	230 A
	Peak	120 A ( 10 sec )	280 A ( 10 sec )
Discharge Current <sup>[2]</sup>	Max. Continuous	120 A	230 A
	Peak	150 A ( 10 sec )	280 A ( 10 sec )
<b>Other Parameter</b>			
Recommend Depth of Discharge	90% DoD		
Dimension ( W × H × D ) (Without hanging board)	370 × 548 × 140 mm	400 × 559 × 233 mm	400 × 708 × 233 mm
Weight Approximate	41 kg	84 kg	109 kg
LED Indicator	LED ( SOC, working, protecting ) & Buzzer		
IP Rating of Enclosure	IP21		
Operating Temperature	Charge: -10~55°C / Discharge: -20~55°C	Charge: 0~55°C / Discharge: -20~55°C	
Storage Temperature	0~35°C		
Relative Humidity	95% (non-condensing)		
Altitude	≤3000m		
Cycle Life	≥6000(25°C±2°C,70%EOL)		
Installation	Wall-Mounted, Floor-Mounted, Stack-Mounted		
Communication	CAN2.0, RS485, Bluetooth+APP		
Warranty Period <sup>[3]</sup>	10 years (5 years product warranty + 5 years service warranty)		
Energy Throughput <sup>[3]</sup>	16 MWh	18 MWh	25 MWh
Certification	UN38.3, MSDS, CE, CB		

[1] Test conditions : 25°C±2°C, at beginning of life and calibration mode, 0.5C discharge, 100% DOD.

[2] The current is affected by temperature and SOC.

[3] Conditons apply, refer to Inverex Warranty Letter.



## Product comparison

Model	Nominal Energy	Charge / Discharge C rate	DoD	Size
INV-LV-IP21 5.1	5.12kWh, 51.2V, 100Ah	1C/1.2C	90%	370 x 548 x 140 mm
INV-LV-IP21 11.8	11.8kWh, 51.2V, 230Ah	1C/1C	90%	400 x 583 x 233 mm
INV-LV-IP21 16	16kWh, 51.2V, 314Ah	0.5C/0.7C	90%	400 x 708 x 233 mm

## Mounting example

### Stacked

Supports 6 layers in series ( 4 layers for INV-LV-IP21 16 ), allows multiple clusters in parallel



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INV-LV-IP21 11.8



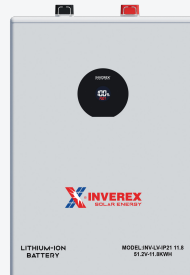
INV-LV-IP21 16

### Wall mounted

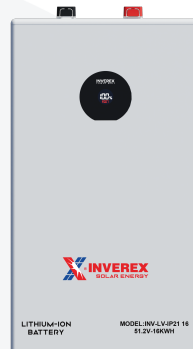
All support wall mounted installation, and support for multiple packs in parallel



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INV-LV-IP21 16

