



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°C to 55°C, natural cooling



Model		INV-LV-IP21 5.1	INV-LV-IP21 11.8	INV-LV-IP21 16
Main Parameters				
Battery Chemistry		LiFePO ₄		
Capacity		100 Ah	230 Ah	314 Ah
Scalability		Max. 32 pcs in parallel		
Nominal Voltage ^[1]		51.2 V		
Operating Voltage		44.8 V ~ 57.6 V		
Nominal Energy		5.12 kWh	11.8 kWh	16 kWh
Charge Current ^[2]	Max. Continuous	100 A	230 A	160 A
	Peak	120 A (10 sec)	280 A (10 sec)	
Discharge Current ^[2]	Max. Continuous	120 A	230 A	
	Peak	150 A (10 sec)	280 A (10 sec)	
Other Parameter				
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 ^[3]		10 years (5 years product warranty + 5 years service warranty)		
Energy Throughput ^[3]		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.