

IPW-51100 | IPL-51100A

Battery



51.2V-5.12kWh | 100Ah



Class-A LiFePO4 Battery Cell

Cycle Life 6000
High Safety and Reliable Performance



High Compatibility

Self-adaptive Communication with Mainstream Inverters



Intelligent Software BMS

50+ Protection Algorithms for Enhanced Safety
and Longer Lifespan
Number of Parallel Units: 15

Model	IPW-51100		IPL-51100A
Main Parameters			
Battery Type	LiFePO ₄		
Nominal Voltage	51.2V		
Nominal Capacity	100Ah		
Nominal Energy	5.12kWh		
Operating Voltage Range	43.2V-57.6V		
Max. Parallel Number	15		
Max. Continuous Charge Current	100A		
Peak Charge Current	110A@1S		
Max. Continuous Discharge Current	100A		
Peak Discharge Current	110A@3S		
Recommended Depth of Discharge	90%		
Cycle Life of Battery Cell	> 6000@25°C, 0.5C/0.5C, 80%DOD, 70%EOL		
Communication Port	CAN2.0/RS485		
General Parameters			
Dimensions D*W*H	135mm*585mm*454mm	450mm*510mm*153mm	
Net Weight	45kg	50kg	
Operating Temperature/Charge	0°C~+60°C		
Operating Temperature/Discharge	-20°C~+60°C		
Recommended Operating Temperature	15°C~+35°C		
Storage Temperature	0°C~+35°C		
Humidity	10%-95%		
Altitude	2000m		
Ingress Protection	IP20		
Cooling Type	Natural Cooling		
Shell Material	Metal		
LED Display	4 LED (SOC), 2 LED (Run and Alarm)		
Certification	IEC62619/UN38.3/MSDS/DGM		
Protection			
Circuit Breaker	/		
Voltage Protection	Yes		
Current Protection	Yes		
Temperature Protection	Yes		
Short Circuit Protection	Yes		