

IPL-51280

Battery



IPL-51280 | 280Ah



Class-A LiFePO4 Battery Cell

Cycle Life >6000 @ 25C, 0.5C, 80% DOD
10-Year Design Life



Intelligent Software BMS

50+ Protection Algorithms for Safety
and Longer Lifespan



High Compatibility

Self-adaptive Communication with Mainstream Inverters
RS485 / CAN / RS232 Communication



Parallel System Support

Number of Parallel Units: 15
280Ah / 14.33kWh Energy Storage

Model	IPL-51280
Main Parameters	
Battery Type	LiFePO4
Nominal Voltage	51.2V
Nominal Energy	14.33kWh (14330Wh)
Nominal Capacity	280Ah
Operating Voltage Range	43.2V - 57.6V
Standard Charging Current	140A
Max. Continuous Charge Current	150A
Cut-Off Charging Voltage	57.6V
Cut-Off Charging Current	2A
Standard Discharge Current	140A
Max. Continuous Discharge Current	150A
Max. Pulse Discharge Current	280A
Cut-Off Discharge Voltage	43.2V
Cut-Off Discharge Current	2A
Max. Parallel Number	15
Cycle Life	>6000 @ 25C, 0.5C, 80% DOD
Communication Port	RS485 / CAN / RS232
General Parameters	
Dimensions D*W*H	880mm * 560mm * 230mm
Net Weight	125kg
Operating Temperature / Charge	0C - 60C
Operating Temperature / Discharge	-20C - 60C
Humidity	10% - 95%
Altitude	2000m
Ingress Protection	IP21
Cooling Type	Natural Cooling
Shell Material	Metal
Display Mode	LED
Design Life	10 Years
Warranty	5-Year Limited Warranty
Certification / Authentication	IEC62619 / UN38.3 / MSDS / DGM
Functions	
Current Limiting Function	20A
Precharge Function	Enable
Smart BMS	50+ Protection Algorithms