

High Voltage Liquid-Cooled Batteries



Basic Properties	PBQ-166300 Plus	PBQ-1331300
Cell Type	LiFePO4 - Prismatic	
Series/Parallel Configuration	1P52S	1P416S
Nominal Voltage	166.4V	1331.2V
Nominal Capacity	304Ah	
Nominal Energy Capacity	50.58kWh	402.022kWh
Operating Voltage Range	140.4-187.2V	1164.8V - 1497.6V
Max. Charge Voltage	187.2V	1518.4V
Standard Charge/Discharge Current	304A /304A	
Cycle Life (*)	≥6000 cycles	
Normal Operating Temperature	25°C	
Charge Temperature	0~50°C	0~55°C
Discharge Temperature (**)	-30~50°C	-20~55°C
Storage Temperature	30~60°C	-10~60°C
Operational Temperature	-20~55°C	
Residual Capacity Loss (Capacity Retention)	≤ 4% (25°C)	
Warranty	10 Years	
Functional Properties		
Communication	CAN, RS485	CAN
Scalability	Max. 8 serial units	Max. 10 parallel units
Cooling	Liquid Cooling	
BMS Protections	No	UV, OV, OC, UT, OT, SC
LED Indicators	No	Alarm, Run, SOC
Circuit Breaker	No	Integrated Master BMS Unit
Fuse	Yes	No
Mechanical Properties		
Protection Level	IP67	
Humidity	5% - 85% RH (non-condensing)	
Altitude	<3000m	
Dimension (WxDxH)	160×790×250 mm (±3 mm)	1170±3×1230±3×266±5mm
Weight	345±5kg	3280±90 kg

(*) Test Conditions: 25°C

(**) Performance may vary in different conditions