



Datasheet

PLM72V50A

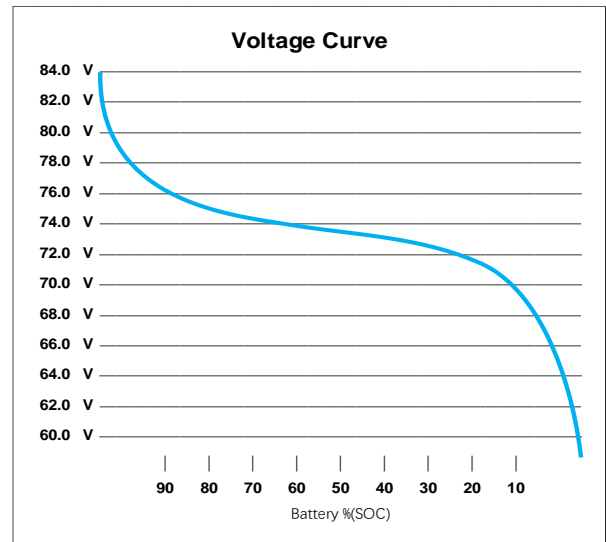
72V/50Ah Litium(NCM) E-surf Battery

General	
Nominal Capacity	55.6Ah
Minimum Capacity	50.0Ah
Nominal Voltage	72.0V
Working Voltage Range	60.0V-84.0V
Recom. Voltage Range	70.0V - 80.0V
Energy	4003.2Wh
Resistance	< 20mΩ@50% SOC
Reserve@10A	300 Minutes
Self Discharge	3% Per Month
Cycle Life	>300 time



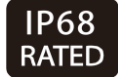
Discharging	
Max Continuous Discharge	150A
Max Discharge 3 Senconds	300A
Max Discharge 30 Sencond	200A
Recom. Voltage Cutoff	80.0V
BMS Voltage Cutoff	50.0V
BMS Voltage Recovery	82.0V
Discharge Temp Range	-10F to 140F

Charging	
Recom. Charging Current	< 20A
Max Charging Current	50A
Charge cut-off current	1A
Float Voltage	80.0V or Off
Balance current	Disabled
BMS High Voltage Cutoff	85.0V
Chargeing Temp. Range	34F to 130F



Physical	
Cell Chemistry	NCM
Cell Type	Prismatic polymer
Cell Configuration	1P20S
Series Connectable	Yes, up to 20
Parallel Connectable	Yes, up to 1
Weight	about 27.5Kg
Dimensions L*W*H	375*255*118mm
Terminal Type	M8 Female
Shell Type	Powder Coated Steel
UN Shipping Class	UN3841

Safety	
Charging Freeze Protection	Yes, under 34F
Pack Over-Voltage	Yes
Cell Over-Voltage	Yes
Pack Under-Voltage	Yes
Cell Under-Voltage	Yes
Cell Over-Temp	Yes
BMS Over-Temp	Yes
Short Circuit/Over Current	Yes
Certifications	UN38.3, MSDS, UL1642
IP Rating	IP68



Note: If overcurrent or short circuit protection is triggered, battery terminals may need to be temporarily disconnected to reset the BMS. BMS will protect battery and equipment from catastrophic failure, but if the short circuit is severe, the BMS may be permanently damaged.