

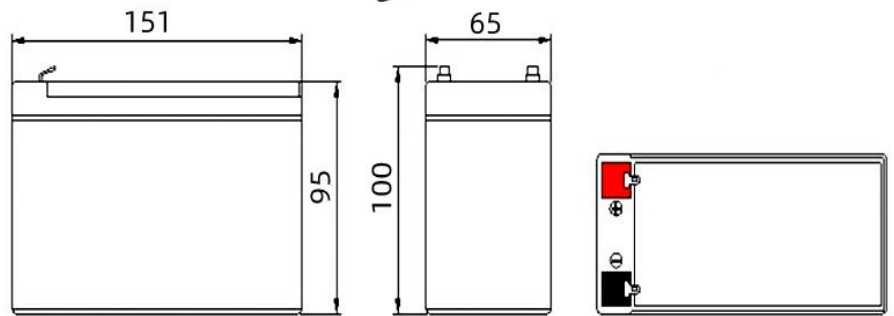


BATTERY COMPANY

MANLY BATTERY CO., LTD

DEEP CYCLE LITHIUM IRON PHOSPHATE BATTERY

MODULE: MLP1205A
 VOLTAGE: 12.8V
 NOMINAL CAPACITY: 5AH
 CASE: ABS Plastic
 CYCLE LIFE: >5,000 cycles @80% DoD
 SAFE LEVEL: Very high, No explosion, No fire
 OTHER: Maintenance-free, Environmental friendly,
 15+ years long battery life,
 Ten-year warranty, etc.



SPECIFICATIONS

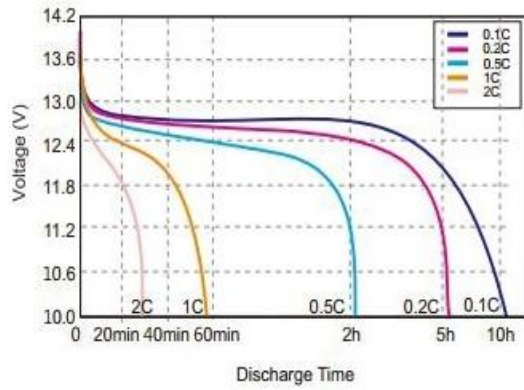
CHARACTERISTICS	PARAMETERS	REMARKS
Rated voltage	12.8V	
Rated Capacity	5Ah	Min Capacity@0.5A 300min
Maximum charging voltage	14.6V	CC/CV
Standard charge current	1A	
Maximum Continuous discharge current	5A	
Maximum Pulse Discharge Current	15A	< 1s
Discharge cut-off voltage	10.0V	
Discharge temperature	-20 ~ 70 °C	
Storage temperature	-20 ~ 45 °C	
BMS Protection	Over Charge, Over Voltage, Over Current, Over Discharge, Short Circuit, High Temperature, Balance	
Cycle life	≥ 5,000	80% DOD
Waterproof level	IP67	
Communication protocol	/	RS485/CAN Bus/Bluetooth/Others
Output method	F2 terminal	
Case Material	ABS plastic	
Weight	Approx: 0.98KG	
Size	151(L)*65(W)*100(H)mm	

REMARK: ULTRA FAST 12V MANLY BATTERY CHARGER IS AVAILABLE

Technical Characteristics

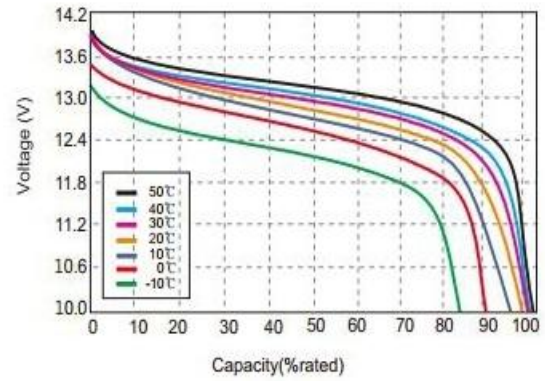
Different Rate Discharge Curve

Different Rate Discharge Curve @25°C



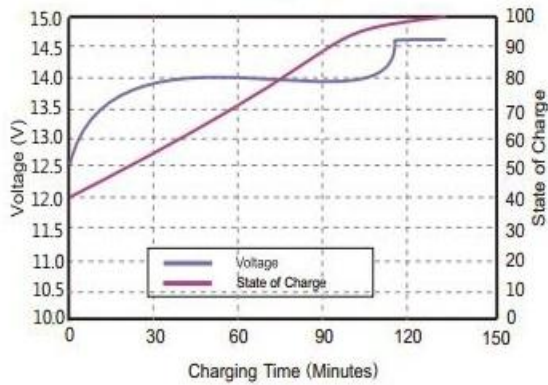
Different Temperature Discharge Curve

Different Temperature Discharge Curve @0.5C



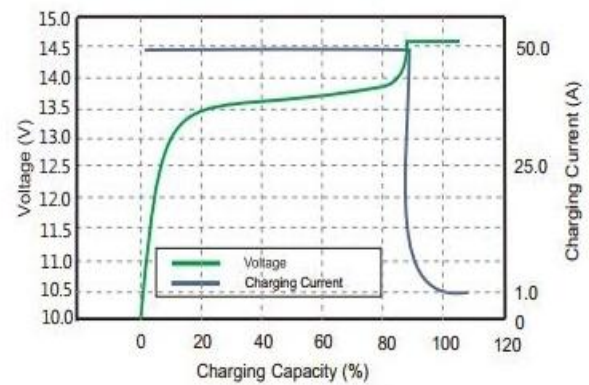
State of Charge Curve

State of Charge Curve @0.5C 25°C



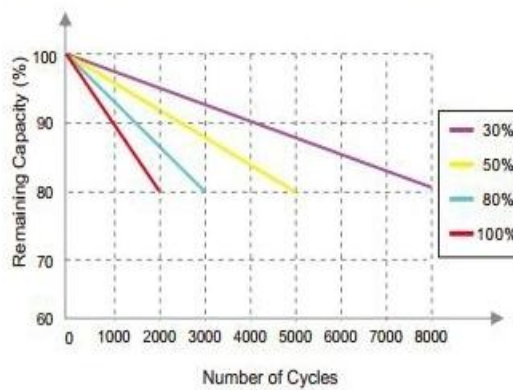
Charging Characteristics

Charging Characteristics @0.5C 25°C



Cycle Life Curve

Different DOD Discharge Cycle Life Curve @1C



Self Discharge Characteristics Curve

Different Temperature Self Discharge Curve

