

- Advanced Lithium Ion Technology
- Fully certified, Active Control Board built-in (BMS)
- Extra light weight; only 40% compared to lead acid batteries.
- Long Cycle Life of > 4000 cycles
- Maintenance free, direct replacement for lead acid batteries in all solar systems.

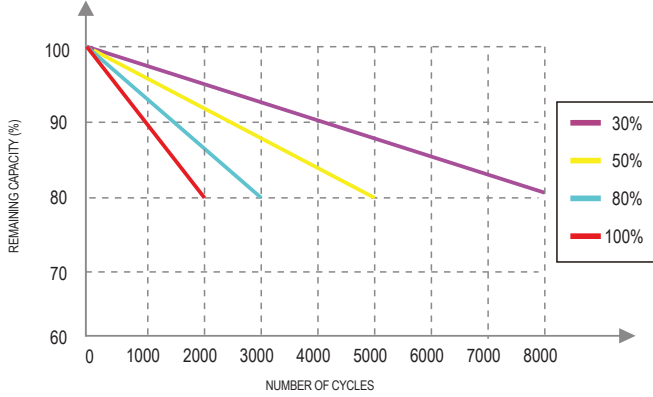


SPECIFICATION

ELECTRICAL CHARACTERISTICS	Nominal Voltage	12.8V
	Nominal Capacity	12 Ah
	Energy	153.6Wh
	Internal Resistance	≤50mΩ
	Cycle Life	> 4000 cycles
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.5C
	Efficiency of Discharge	99% @1C
STANDARD CHARGE	Charge Voltage	14.4V to 14.6V
	Charge Mode	0.2C to 14.6V, then 14.6V, charge current to 0.02C (CC/CV)
	Charger Current	6A
	Max. Charge Current	12A
STANDARD DISCHARGE	Automatic Over Voltage Cut-off	16V
	Maximum Continuous Discharge Current	12A
	Max. Pulse Current	30A(<3s)
ENVIRONMENTAL	Automatic Low Voltage Cut-off	8V
	Charge Temperature	-15°C to 65°C
	Discharge Temperature	-25°C to 80°C
	Storage Temperature	-15°C to 65°C
MECHANICAL	Water Dust Resistance	IP56
	Cell & Method	18650 4S8P
	Plastic Case	ABS
	Dimensions (in./mm.)	151*98*95mm (5.95"*3.86"*3.74")
	Weight (lbs./kg.)	(1.77kg) 3.9Lbs
	Terminal	T2
	Protocol (optional)	SMBus/RS485/RS232
SOC (optional)	LED	

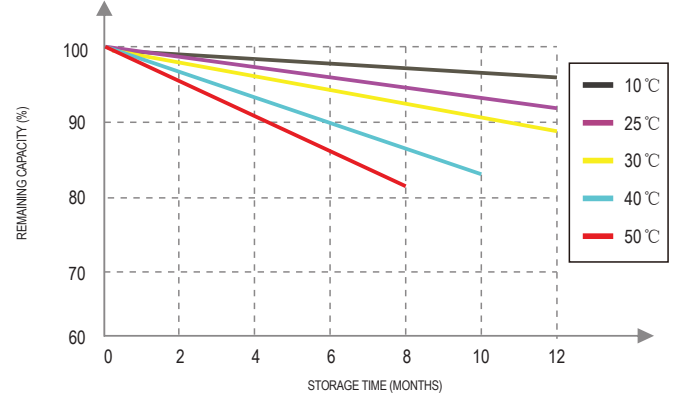
CYCLE LIFE CURVE

DIFFERENT DOD DISCHARGE CYCLE LIFE CURVE @ 1C



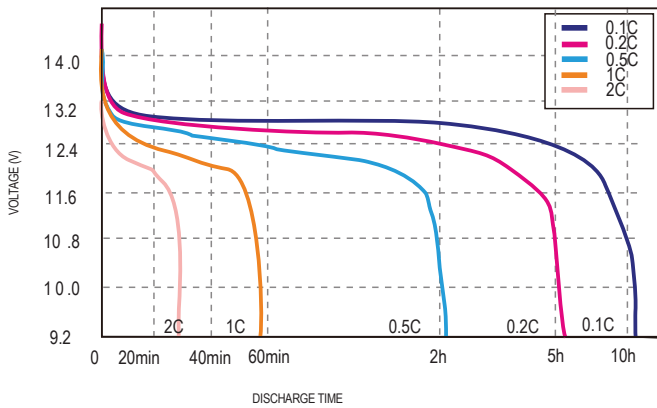
SELF-DISCHARGE CHARACTERISTICS CURVE

DIFFERENT TEMPERATURE SELF DISCHARGE CURVE



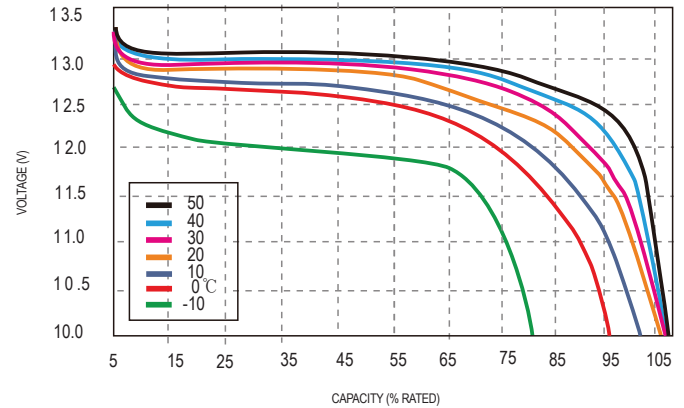
DIFFERENT RATE OF DISCHARGE CURVE

DIFFERENT RATE DISCHARGE CURVE @ 25°C



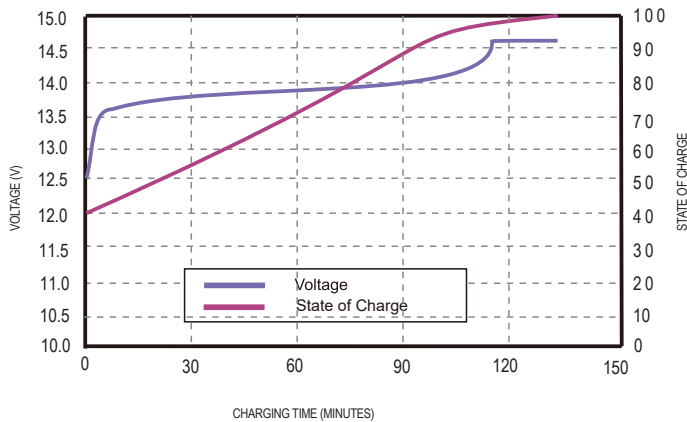
DIFFERENT TEMPERATURE DISCHARGE CURVE

DIFFERENT TEMPERATURE DISCHARGE CURVE @ 0.5C



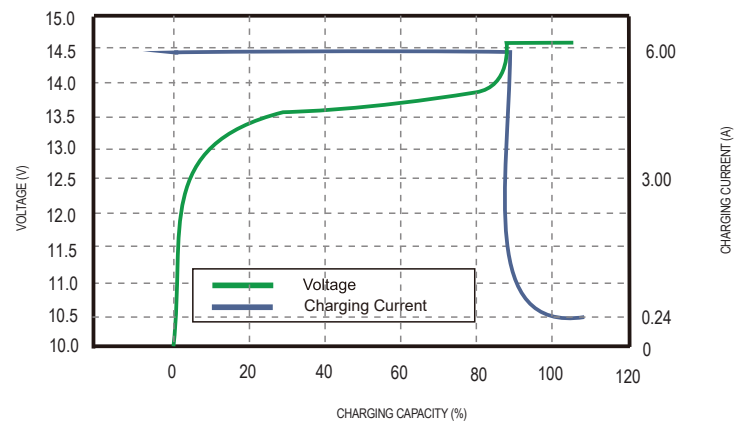
STATE OF CHARGE CURVE

STATE OF CHARGE CURVE @ 0.5C 25°C

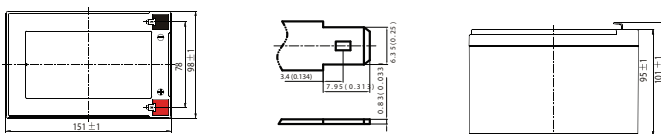


CHARGING CHARACTERISTICS

CHARGING CHARACTERISTICS @ 0.5C 25°C



DIMENSIONS



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