TECHNICAL DATA SHEET

D12-54

Applications



CYCLIC STATIONARY SOLAR MARINE

Product Features

- Cylindrical LFePO$_4$ cell-26650/32700 (3.2V 3.0~6.3Ah), higher reliability
- Longer cycle life 2000 cycles@100%DOD.
- Fully replaceable with current batteries (Lead-acid, Ni-Cd)
- Lithium iron phosphate technology, safe and reliable.
- Maintenance free 50% lighter than lead acid batteries
- Optimum adaptation to variety applications with series & parallel expansion support

Product Application

UPS | Signal | EPS | Solar Power | Base Station | Electric Vehicle | Other power supply

Nominal Characteristics

Nominal Voltage	12.8V
Nominal Capacity (@0.2C)	54Ah (4S9P)
Nominal Energy	691.2Wh
Internal Resisitance	50mΩ
Self Discharge Rate	≤3.5% per month
Cycle Life (@25℃,0.2C,100%DOD)	2000 Cycles
Parallel Connected Function	No more than 2 groups in parallel
Series Connected Function	No more than 4 groups in series

Charging Specificaitions

Recommended Charging Voltage	14.0~14.6V
Max. Charging Current	27A

Discharging Specificaitions

Discharging Cut-off Voltage	10.0V
Max. Discharging Continuous Current	54A
Max. Discharging Pulse Current	120A, <3S

BATTERY SUPPLIES

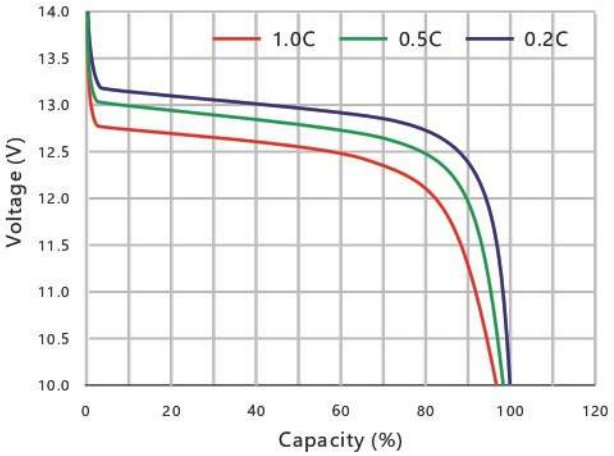
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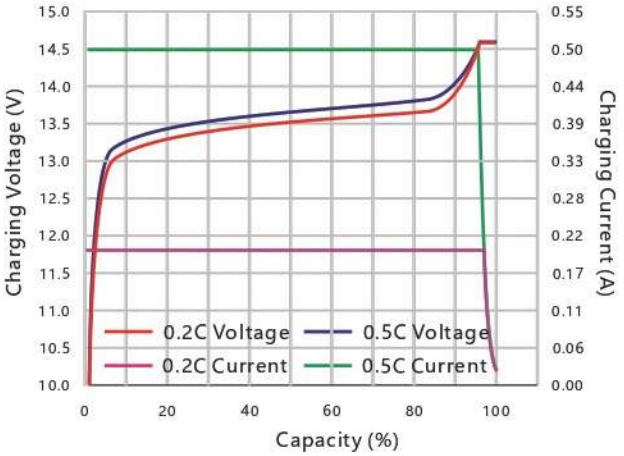
Mechanical Characteristics	
Length	229mm
Width	138mm
Height	212mm
Total Height	217mm
Weight	Approx. 6.7Kg
Teminal	M6

Operating Conditions	
Charge Temperature	0℃~45℃ (32℉ to 113℉)
Discharge Temperature	-20℃ to 60℃ (-4℉ to 140℉)
Storage Temperature	0℃ to 45℃ (32℉ to 113℉)
Safety Standard	UL 1642 at cell level
Water Dust Resistance	IP55

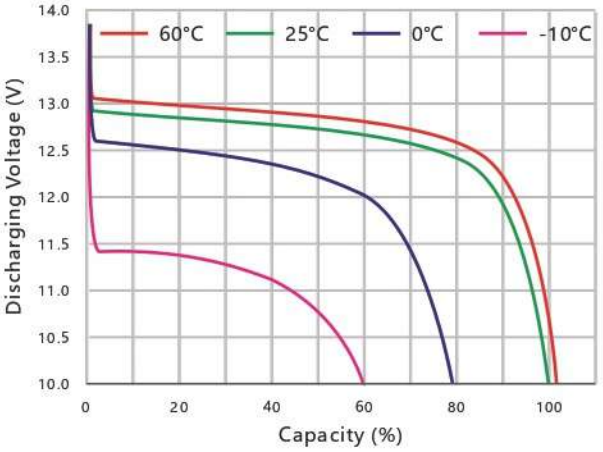
Discharging curve at different rate @25°C



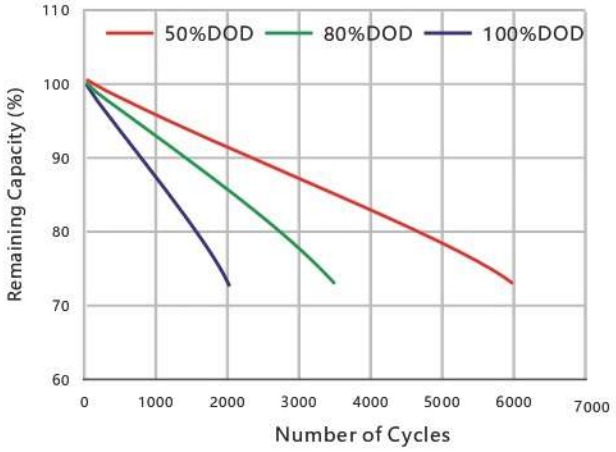
Charging Characteristic @25°C



Capacity under different Temp.



Cycle Life under different DOD@0.2C,25℃



BATTERY SUPPLIES