

Lithium (LiFePO4) DC GF12-22

Specification

Item	Specifications		
Min capacity	22Ah 0.2C Discharge		
Initial Impedance	≤100m Ω		
Weight Approx.:	2.8KG		
Nominal voltage	12.8V		
Fully charge voltage (FC)	14.6V Defined in this DOC: FC = 14.6V		
Fully discharge voltage (FD)	8V Defined in this DOC: FD = 8V		
Standard charge current	0.2C		
Standard charging method	0.2C CC (constant current) charge to FC, then CV (constant voltage FC) charge till charge current decline to ≤0.01C		
Charging time	Standard Charging approx. 8 hours		
Max. Charge current	Constant Current 0.2C Constant Voltage FC 0.01 C cut-off		
Max. Discharge current	Constant current 0.5C end voltage FD		
Standard Discharge Current	Constant current 0.2 C end voltage FD		
Charge cut-off voltage	Ref. 14.6 VDET4		
Discharge cut-off Voltage	Ref. 8 VDET4		
Storage temperature	-10°C~60°C	≤1 month	Percentage of recoverable capacity no less than 80% of the initial capacities
	-10°C~45°C	≤3 month	
	-10°C~28°C	≤1 year	
Recoverable capacity	Constant current 0.2C charge to FC, then constant voltage FC charge to current declines to 0.01C, rest for 10min, constant current 0.2C discharge to FD, rest for 10min.Repeat above steps 3 times, recording the maximum capacity		
Storage Humidity	≤75% RH		
Appearance	Without distortion and leakage		
Standard testing condition	Temperature: 23±5°C Humidity: ≤75%RH Atmospheric Pressure: 86-106 K pa		

Operating temperature: charging 0°C~45°C; Discharging: -10°C~60°C

If the working condition is out of Standard testing condition, the performance will be some shift.

General Performance

Item	Test Methods and Condition	Criteria
0.2C Capacity	At standard testing condition, after standard charging, rest battery for 10min, then discharging at 0.2C to voltage FD, recording the discharging time.	≥300min
0.3C Capacity	At standard testing condition, after standard charging, rest battery for 10min, then discharging at 0.3C to voltage FD, recording the discharging Capacity	≥175min
Cycle Life	At standard testing condition, constant current 0.2C charge to FC, then constant voltage charge to current declines to 0.01C, rest 10min, constant current 0.2C discharge to FD, rest 10min. Repeat above steps till continuously discharging capacity Higher than 80% of the Initial Capacities of the Cells	≥2000 times
Capability of keeping electricity	At standard testing condition, After standard charging, no outer loading circuit, rest the pack 28days, discharging at 0.2C to voltage FD, recording the discharging time.	≥240min