



Lithium Battery Series

LFP327004P4S600A1 12.8V24.0Ah

LONGWAY lithium battery uses positive lithium iron phosphate(LiFePO4), negative carbon material cell. The battery adopt two layers of PVC wrap and plastic bracket to isolate heat source, with insulation, anti-external impact and other protective effects, and has the advantages of anti-vibration impact, anti-drop damage.

General Feature

- Super fast charge: Support 1C charge, 1.5 hours full
- Rate discharge: can be large current 25A(320W) continuous discharge
- BMS management: over charge, over discharge, over current, short circuit, overheat protection
- Reliable structure: adopts the support structure, stable structure, good heat dissipation
- Energy density: 160Wh/Kg battery, 118Wh/Kg battery pack, small size, light weight
- Safe and reliable: using large capacity cell 32700 lithium iron phosphate battery, no fire, no explosion
- Long life: vehicle-grade battery cell, cycles more than 4000 times, battery cycle more than 1000 times

Applications

- Scooter
- Wheelchair
- Electric elevator
- Electric toy car
- Speaker/sound system

Performance

Nominal Voltage	12.8V
Nominal Capacity	24.0Ah@4.80A current to 9.28V@25°C
Energy Density	307.2Wh
Terminal Type	6.3-2P
Weight	2600g
Internal Resistance	≤160mΩ
Cell Type	32700-6.0Ah
Pack Configuration	4P4S

Dimensions

Length 140mm
Width 75mm
Height 145mm



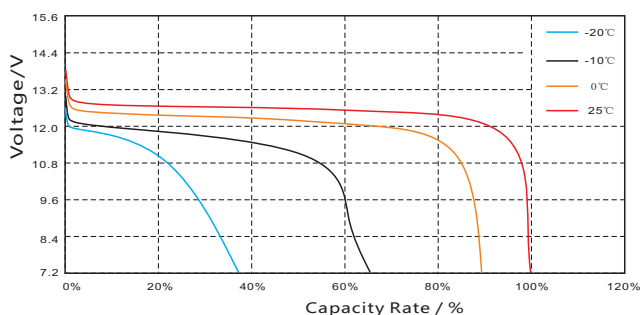
Electrical Parameters

Open Circuit Voltage	12.80~13.4V
Max Charge Current	6A
Max Discharge Current	25A
Standard Charge	4.80A constant current charge to 14.4V, followed by 14.4V constant voltage charge until current taper to ≤1.2A
Standard Discharge	4.80A current discharge to 9.28V
Protection Class	IP65
Storage Temperature	-40°C~55°C
Operation Temperature	Charge:0°C~50°C; Discharge:-10°C~60°C

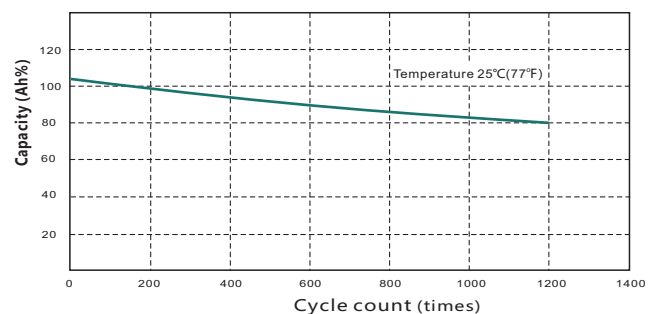
BMS Parameters

Overcharge Detection Voltage	14.6±0.1V
Overdischarge Detection Voltage	9.28±0.08V
Over Current	40-73A
Short Detection Delay Time	100-300-600us
Release Conditions	Cut Off Load
Charge Over-temperature	45°C±5°C
Charge Under-temperature	-10°C±5°C
Discharge Over-temperature	65°C±5°C
Normal Current Consumption	≤40uA

Discharge Characteristics(by temperature)



Cycle Life Characteristics



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Note: This information usually describes use only and is not intended to make any warranties or promises regarding the battery. Battery specifications and battery design are subject to change without prior notice. Please contact LONGWAY Battery for the latest information.