



Lithium Battery Series

LFP267003P4S430A1 12.8V12.9Ah

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 20A(256W) 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, 120Wh/Kg battery pack, small size, light weight
- Safe and reliable: using large capacity cell 26700 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 | 12.9Ah@2.58A current to 9.28V@25°C |
| Energy Density | 165.12Wh |
| Terminal Type | 6.3-2P |
| Weight | 1310g |
| Internal Resistance | ≤160mΩ |
| Cell Type | IFR26700 |
| Pack Configuration | 3P4S |

Dimensions

Length 113mm
Width 75mm
Height 91mm



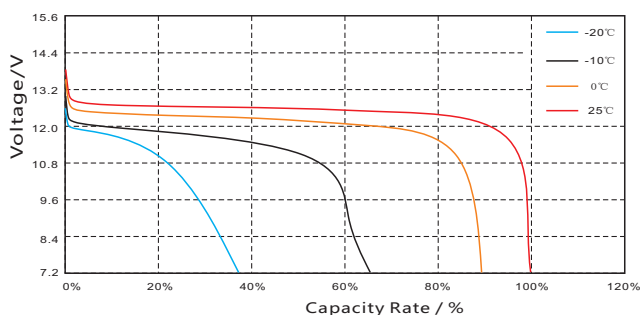
Electrical Parameters

| | |
|-----------------------|---|
| Open Circuit Voltage | 12.80~13.4V |
| Max Charge Current | 5A |
| Max Discharge Current | 20A |
| Standard Charge | 2.58A constant current charge to 14.4V, followed by 14.4V constant voltage charge until current taper to ≤300mA |
| Standard Discharge | 2.58A 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 |

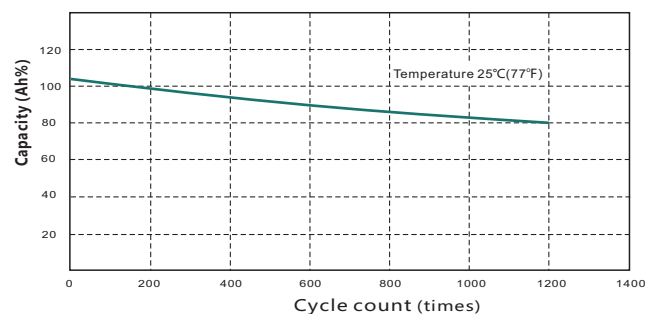
BMS Parameters

| | |
|---------------------------------|---------------|
| 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.