



Lithium Iron Phosphate (LiFePO4) Battery Pack

12.8V Series

Features

- ◆ ETOP POWER 12.8V LiFePO4 Batteries, which can be connected for use in 12V, 24V, 36V and 48V battery systems, is the current best choice with drop-in replacements for any type lead acid batteries.
- ◆ Using the technology of lithium iron phosphate cell, superior safety, Thousands of cycles, 100%DOD, under normal conditions.
- ◆ Built-in automatic protection for over-charge, over discharge, over Current and over temperature
- ◆ Free of maintenance.
- ◆ Internal cell balancing.
- ◆ Lighter weight: About 40%~50% of the weight of a comparable Lead acid battery.
- ◆ Support for Series application expansion (upto 51.2V)
- ◆ Wider temperature range: -20°C~60°C.



Application

- ◆ UPS
- ◆ Solar & Wind Power System
- ◆ Golf Cart, Recreational Vehicle, Electric Vehicle, E-bike, E-rickshaw etc.
- ◆ Lighting

Specification

Product number	ETLF128-P050A	ETLF128-P100A	ETLF128-P150A	ETLF128-P200A
Norminal Battery Energy	640wh	1280wh	1920wh	2560wh
Norminal Voltage	12.8V(4S)			
Norminal Capacity@0.2C	50Ah	100Ah	150Ah	200Ah
Charge Voltage	14.6V			
Discharge cut-off voltage	10.0V			
Charger Current	<25A	<50A	<75A	<100A
Max discharge Current	50A	100A	100A	100A
Max Peak discharge current	100A	200A	200A	200A
Communication	Bluetooth(optional)			
Terminal	M6	M8	M8	M8
WaterDustResistance	IP65			
Size	196*166*171mm	328*172*230mm	483*170*240mm	522*240*218mm
weight	Approx.6.0Kg	Approx.10.5Kg	Approx.15.5Kg	Approx.20.0Kg
OperatingCondition	Charge: 0~50°C; Discharge: -20~60°C; Storage:0~45°C			
Cycle Life	≈3000Cycles@100%DOD / ≥4000Cycles@80%DOD. Test conditions: 0.2C charge / discharge at 25°C			
Self Discharge	Months<3%			
Shell material	Plastic			
WaterDustResistance	IP65			
Internal Resistance	≤50mΩ	≤40mΩ	≤35mΩ	≤30mΩ
series connection	2pcs series 24V, 3pcs series 36V, Max 4pcs series 48V			
Protection	Over charge, over discharge, over current, Short circuit, high-temp			

ETOP ELECTRONIC TECHNOLOGY CO., LTD

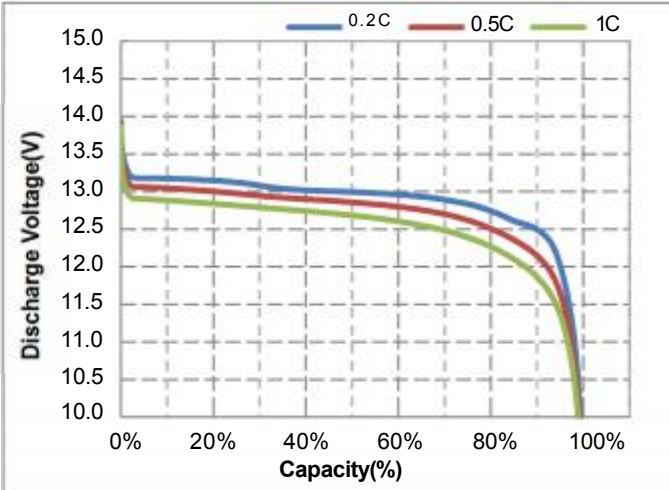
Website Address (URL): <https://www.etoppower.com>

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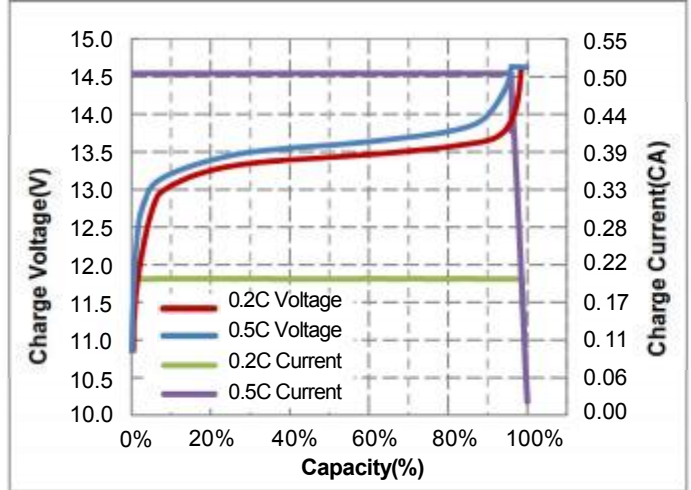
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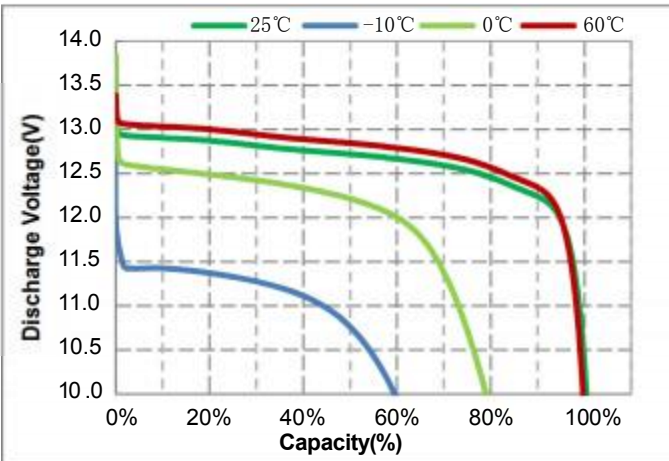
Different Rate Discharge Curve @25°C



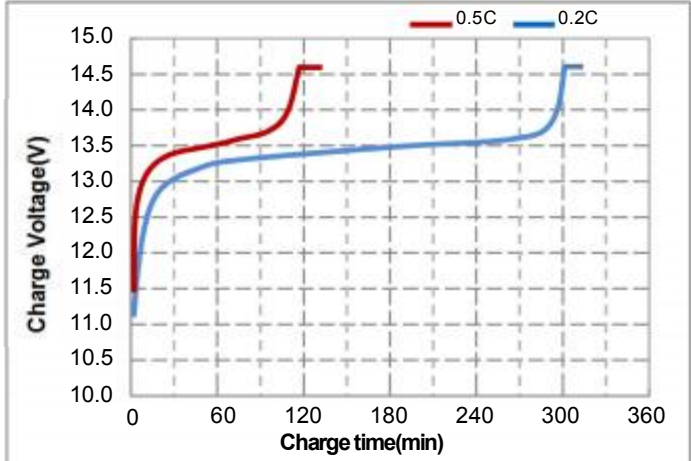
Charge Characteristics of capacity-voltage@0.2C&0.5C, 25°C



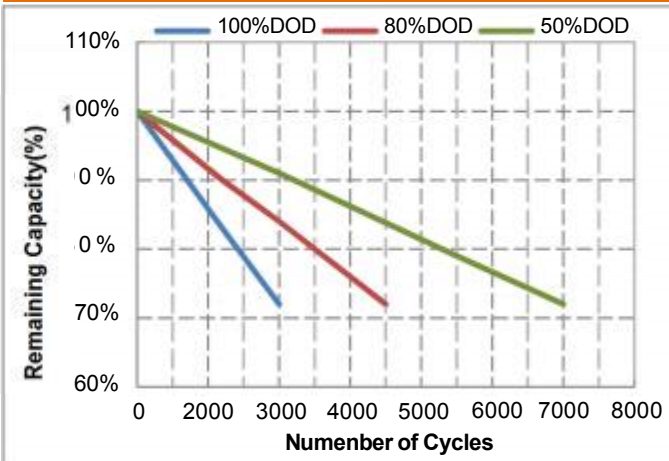
Different Temperature Discharge Curve @0.5C,25°C



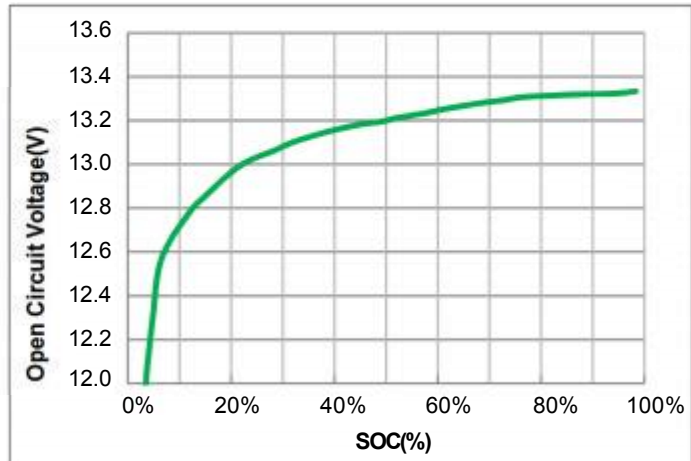
Charge Characteristics of time-voltage@0.2C&0.5C, 25°C



Different DOD Discharge Cycle Life Curve @0.2C,25°C



Open circuit voltage VS SOC%@25°C



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