

FLP12-100B

Datasheet

FULBAT®

HIGH CYCLIC BATTERY



Fulbat LiFePO4 Battery Monitor

Bluetooth®



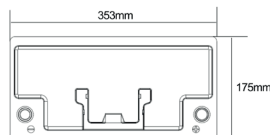
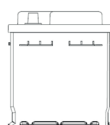
LiFePO4

FLP Series are Lithium Iron Phosphate (LiFePO4) batteries specially designed to replace lead acid batteries thanks to their standard size cases and their similar charging voltage. The FLP Series offer many advantages compared to lead acid in terms of weight, cyclic performance, safety and power.

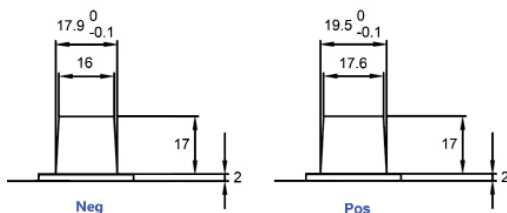
This range is ideal for applications that require a higher power-weight ratio and with minimal service or replacement requirements. Ideal for marine and leisure applications, its L5 casing is particularly suitable under the passenger seat. OCV, state of charge, state of health, charge/discharge currents, cycle counter and temperature can be monitored easily by simply downloading the Android or Apple (iOS) App to a smartphone directly connected to the BMS via bluetooth.

DIMENSIONS & WEIGHT

Length	353±2mm
Width	175±2mm
Total height	190±2mm
Gross weight	12.50kg



TERMINAL



SPECIFICATIONS

Nominal voltage	12.8V (32700)
Nominal capacity	100Ah
Energy	1280Wh
Internal resistance	Approx 45mΩ
Cycle life	Up to 2000 cycles at 100% DOD* Up to 4000 cycles at 80% DOD*
Monthly self discharge	≤3.5% per month at 25
Bluetooth	Build-in, Version 4.0
Terminal	Automotive terminals
Standard charge	
Charge voltage	14.6±0.2V
Charge current	20A
Max. charge current	50A
BMS charge cut-off voltage	15V (3.75V/Cell)
BMS reconnect voltage	14V (3.5V/Cell)
Max. in series/parallel	4 batteries
Standard discharge	
Discharge current	20A
Max. continuous current	100A
Max. peak current	300A (≤3s)
Discharge end-off voltage	10.0V
BMS discharge cut-off voltage	9.2V (2.3V/Cell)
BMS reconnect voltage	10V (2.5V/Cell)
Operating temp. range	
Charge temperature	0°C to 45°C
Discharge temperature*	-20°C to 60°C
Storage temperature	0°C to 45°C
BMS High Temperature Cut-Off	70°C
Container material	A.B.S.
IP Rate	IP65

*For low temperature discharge (-20°C), discharge current recommended is 0.2C.

APPROVALS

ISO9001 - Quality management system
ISO14001 - Environmental management System
UN38.3 certified: approved for transport by Air (IATA)

APPLICATIONS



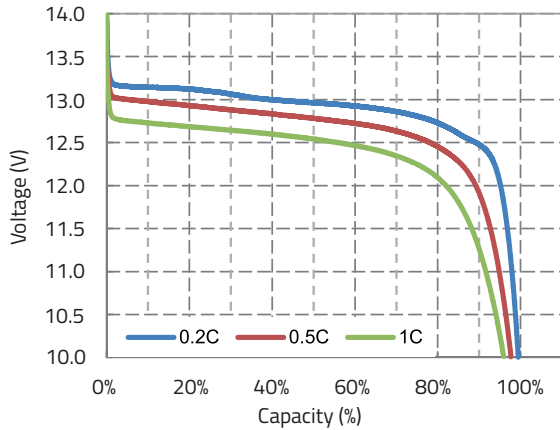
Leisure & Marine

FLP12-100B

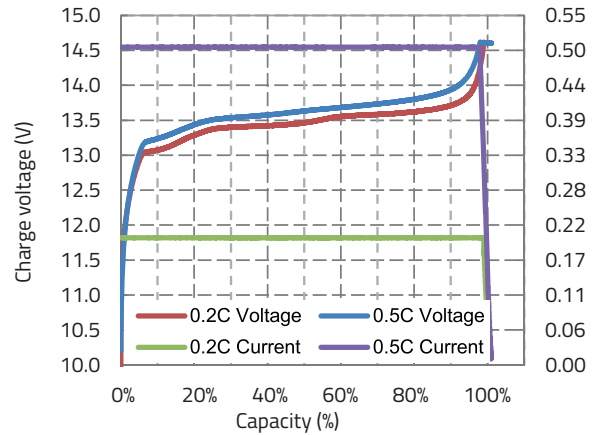
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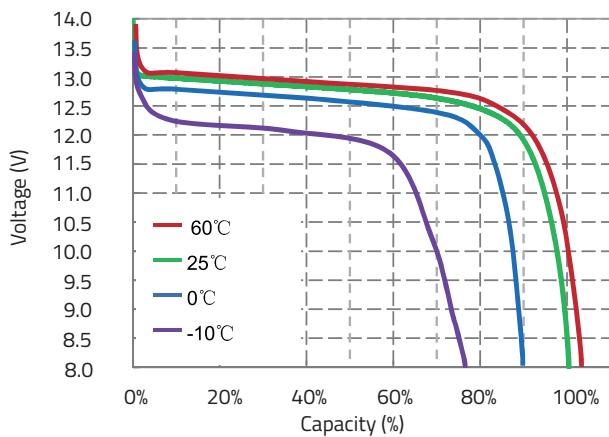
DIFFERENT RATE DISCHARGE CURVE, 25°C



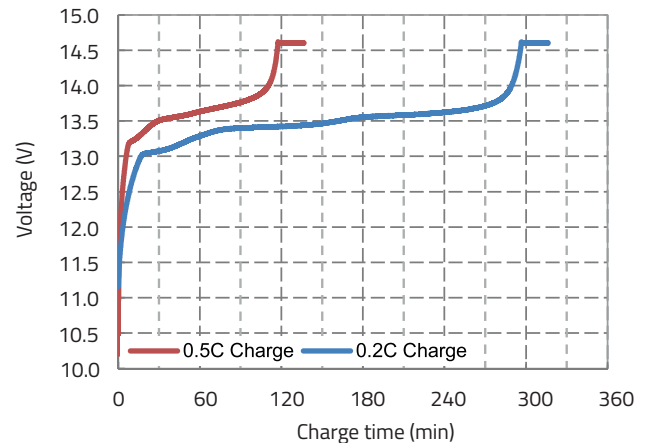
CHARGE CHARACTERISTICS, 0.2C & 0.5C, 25°C



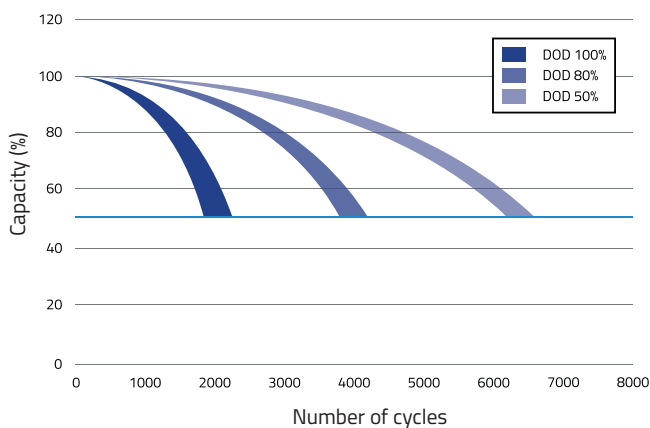
DIFFERENT TEMPERATURE DISCHARGE, 0.5C, 25°C



CHARGE CHARACTERISTICS, 0.2C & 0.5C, 25°C



DIFFERENT DOD DISCHARGE CYCLE LIFE CURVE



OPEN CIRCUIT VOLTAGE VS SOC%

