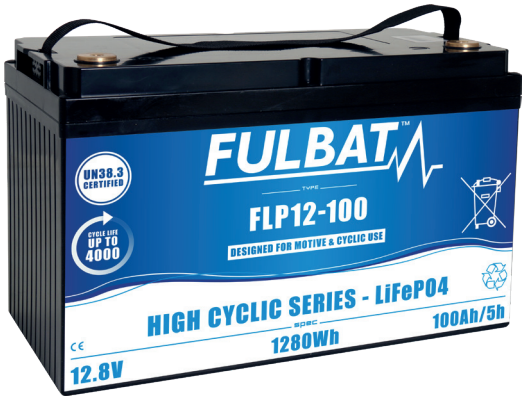
FLP12-100
Datasheet

FULBAT™
HIGH CYCLIC BATTERY

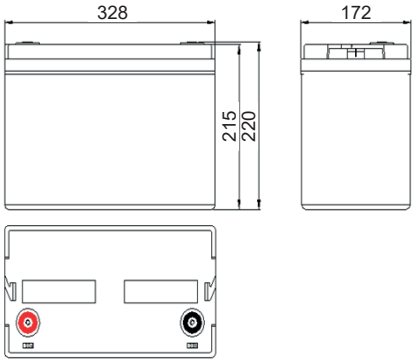


LiFePO4 NON-SPILLABLE

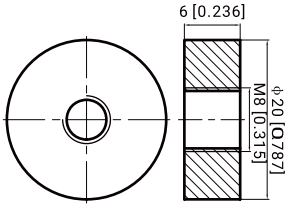
FLP Series are Lithium Iron Phosphate (LiFePO4) batteries specially designed to replace lead acid batteries thanks to their standard size cases and their similar charging voltage.
The FLP Series offer many advantages compared to lead acid in terms of weight, cyclic performance, safety and power.
This range is ideal for applications that require a higher power-weight ratio and with minimal service or replacement requirements.

DIMENSIONS & WEIGHT

Lenght	328±2mm
Width	172±2mm
Total height	220±2mm
Gross weight	12.57kg



TERMINAL



SPECIFICATIONS

Nominal voltage	12.8V (32700 - 4S17P)
Nominal capacity	100Ah (5hr)
Energy	1280Wh
Internal resistance	Approx 45mΩ
Cycle life	Up to 2000 cycles at 100% DOD* Up to 4000 cycles at 80% DOD*
Protection function (BMS)	Over charge protection/Over discharge protection/Over current protection/Temperature protection/ Balanced function
Terminal	T11
Standard charge	
Charge voltage	14.6±0.2V
Charge mode	Charge CC: 0.2C to 14.6V, then 14.6V until current drops to 0.02C
Charge current	20A
Max. charge current	50A
Standard discharge	
Discharge current	20A
Max. continuous current	100A
Max. pulse current	250A (≤3s)
Discharge cut-off voltage	10.0V
Operating temp. range	
Charge temperature	0°C to 45°C
Discharge temperature	-20°C to 60°C
Storage temperature	0°C to 45°C
Self discharge	Can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly self-discharge ratio is less than 3.5% at 25°C
Container material	A.B.S.

APPROVALS

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

APPLICATIONS

UPS & data center
Renewable energy
Golf cart
Medical

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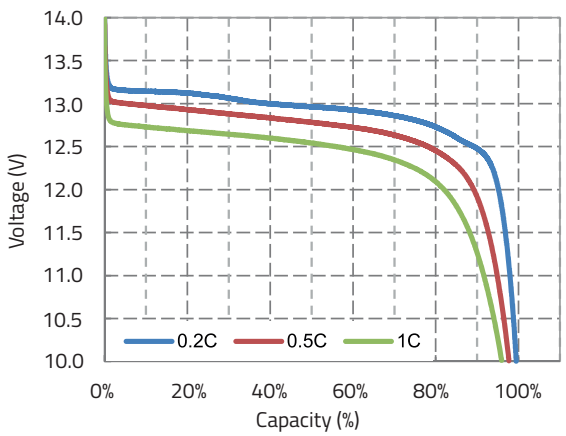
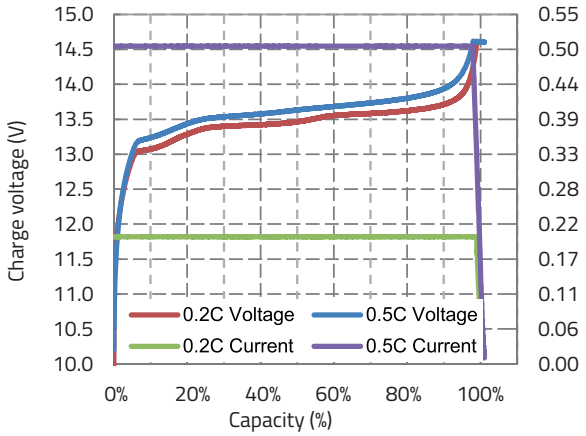
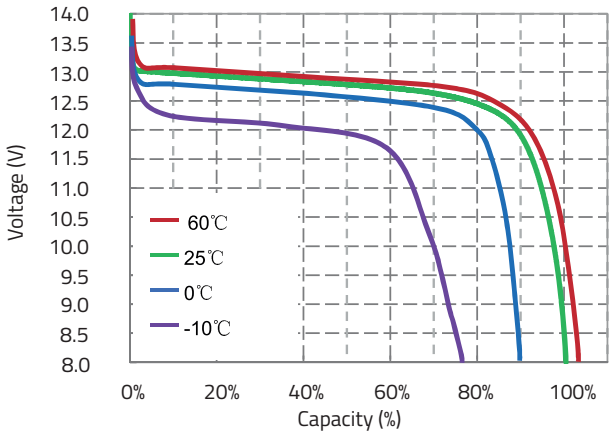
DIFFERENT RATE DISCHARGE CURVE, 25°C



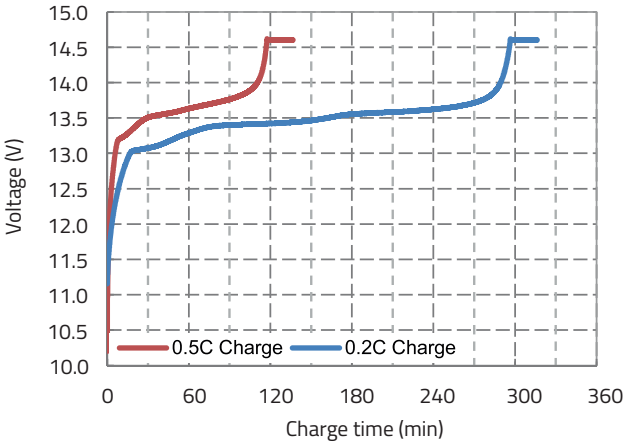
CHARGE CHARACTERISTICS, 0.2C & 0.5C, 25°C



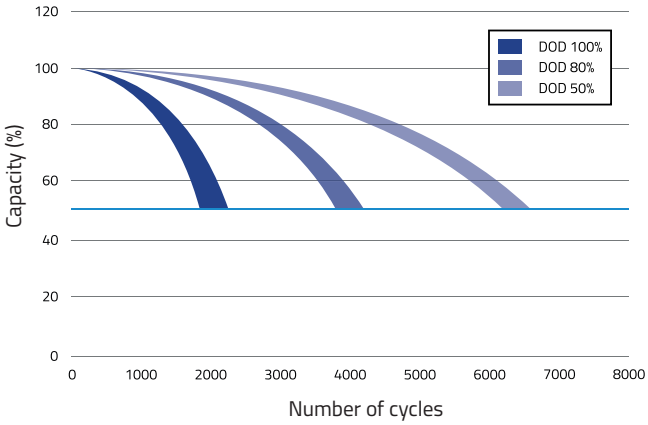
DIFFERENT TEMPERATURE DISCHARGE, 0.5C, 25°C



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



DIFFERENT DOD DISCHARGE CYCLE LIFE CURVE



OPEN CIRCUIT VOLTAGE VS SOC%