# FLP12-84

## Datasheet





## 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 powerweight ratio and with minimal service or replacement requirements.

#### √ DIMENSIONS & WEIGHT

Lenght	260±2mm
Width	169±2mm
Total height	218±2mm
Gross weight	10.5kg

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### **A SPECIFICATIONS**

Nominal Voltage	12.8V
Nominal capacity	84Ah (5hr)
Energy	1075.2Wh
Internal resistance	Approx 25mΩ
Cycle life	Up to 2000 cycles at 100% DOD*
	Up to 4000 cycles at 80% DOD*
Protection function	Over charge protection/Over
(BMS)	discharge protection/Over current
	protection/Temperature protection/
	Balanced function
Terminal	T11
Standard charge	

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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 16.8A Max. charge current 42A

Standard discharge

Discharge current 16.8A Max. continuous current 84A Max. pulse current 168A (≤5s) 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 35°C

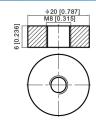
Can be stored for up to 6 months at 25°C Self discharge and then recharging is recommended. Monthly self-discharge ratio is less than 3.5% at 25°C

**Container material** A.B.S. **IP Rate** IP65

### A APPROVALS

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

### *√* **TERMINAL**



### APPLICATIONS











Marine & leisure

Renewable

Mobility

Floor cleaning machine









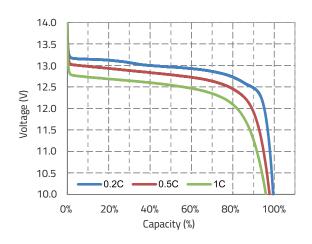


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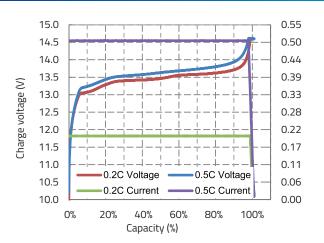
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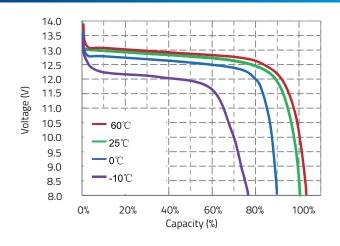
### ◆ DIFFERENT RATE DISCHARGE CURVE, 25°C



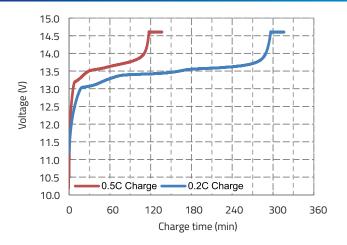
### CHARGE CHARACTERISTICS, 0.2C & 0.5C, 25°C



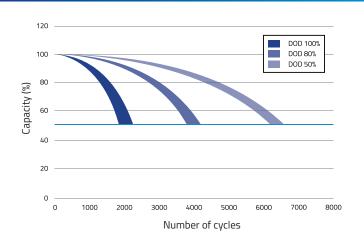
### ◆ DIFFERENT TEMPERATURE DISCHARGE, 0.5C, 25°C



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



### ◆ DIFFERENT DOD DISCHARGE CYCLE LIFE CURVE



### ✓ OPEN CIRCUIT VOLTAGE VS SOC%

