



NON-SPILLABLE

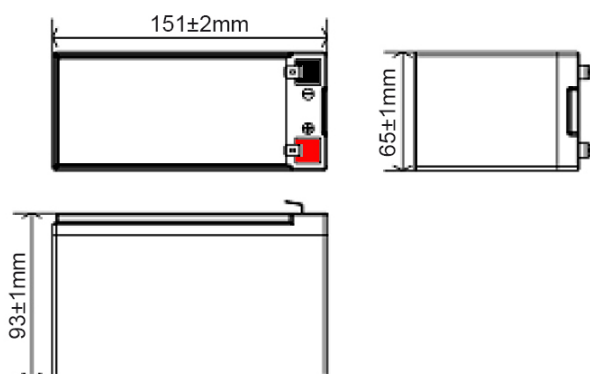


LiFePO4

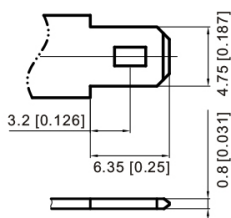
FLP Series are Lithium Iron Phosphate (LiFePO4) batteries specially designed to replace lead acid batteries thanks to their standard size cases and their similar charging voltage. The FLP Series offer many advantages compared to lead acid in terms of weight, cyclic performance, safety and power. This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

DIMENSIONS & WEIGHT

| | |
|--------|------------------------|
| LENGTH | 151±2mm |
| WIDTH | 65±1mm |
| HEIGHT | 93±1mm |
| WEIGHT | 1.1kg (tolerance ± 3%) |



TERMINAL (MM)



SPECIFICATION

| | |
|---------------------------|---|
| Nominal voltage | 12.8V (18650 - 4S5P) |
| Nominal capacity | 9Ah (5hr) |
| Energy | 115.2 Wh |
| Internal resistance | Approx 90mΩ |
| Cycle life | Up to 1600 cycles at 100% DOD*(80% capacity - 20°C) Up to 3200 cycles at 80% DOD* (80% capacity - 20°C) |
| Protection function (PCM) | Over charge protection/Over discharge protection/Over current protection/Temperature protection/Balanced function |
| Terminal | T1 |
| Standard Charge | |
| Charge voltage | 14.4±0.1V |
| Charge mode | Charge CC :0.2C to 14.4V, then 14.4V until current drops to 0.01C |
| Charge current | 1.8A |
| Max. charge current | 4.5A |
| Standard Discharge | |
| Continuous current | 4.5A |
| Max. continuous current | ≤9A |
| Max. pulse current | 9-27A(≤20ms) |
| Discharge cut-off voltage | About 10.0V |
| Operating temp. range | |
| Charge temperature | 0°C to 45°C |
| Discharge temperature | -20°C to 60°C |
| Storage temperature | 0°C to 40°C |
| Self discharge | Can be stored for up to 6 months at 25°C/77°F and then recharging is recommended. Monthly self-discharge ratio is less than 3% at 25°C/77°F |
| Container material | A.B.S. |

*DOD = Depth of discharge

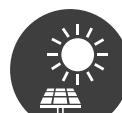
APPLICATIONS



Mobility



Golf Caddy



Solar



Medical



Telecom



Leisure



Marine



Wind

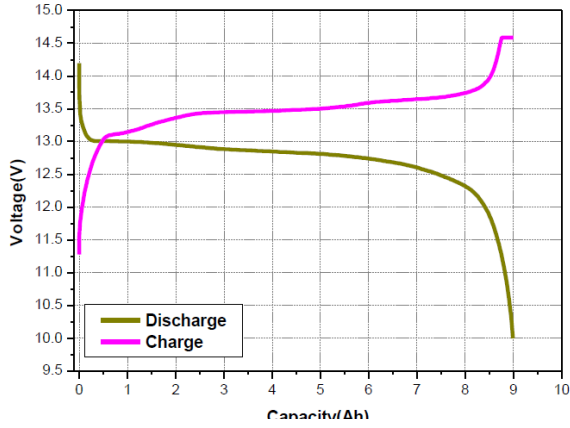


UPS

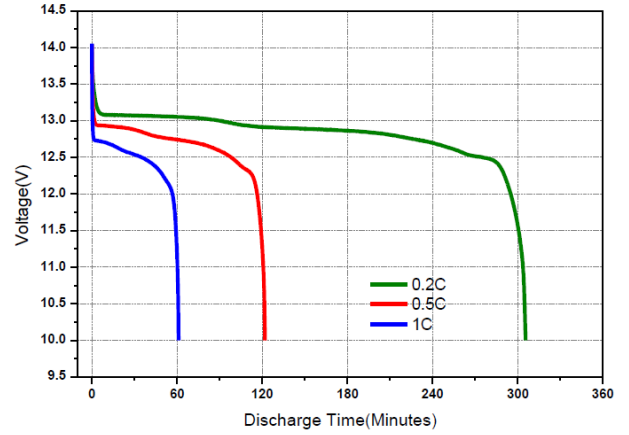
APPROVALS

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

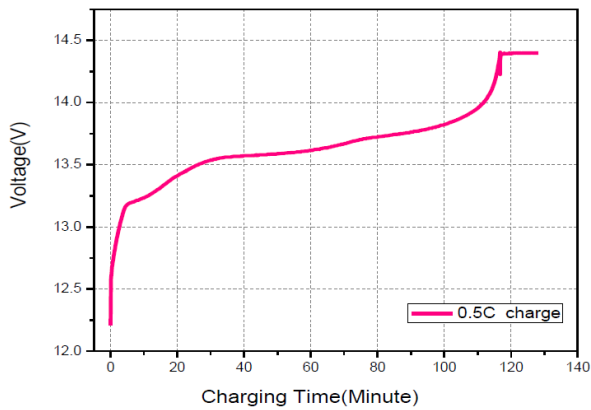
CHARGE-DISCHARGE CURVE 0.2C, 25°C



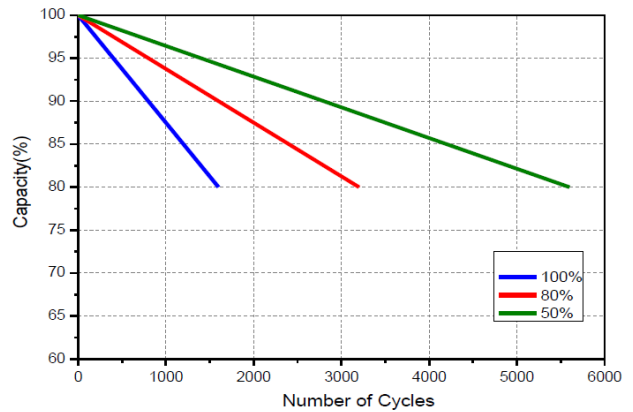
DIFFERENT RATE DISCHARGE TIME & VOLTAGE CURVE, 25°C



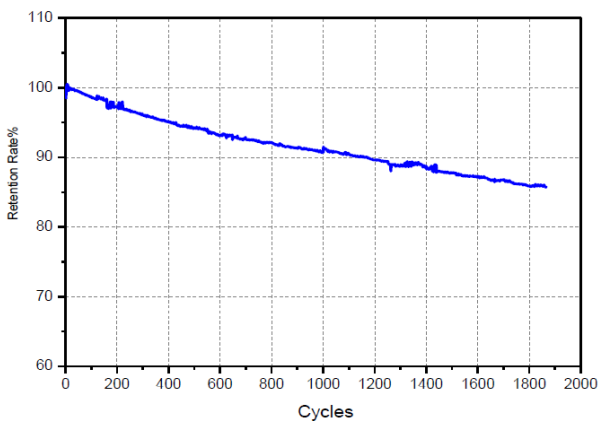
VOLTAGE & CHARGING TIME CURVE, 0.5C, 25°C



DIFFERENT DOD DISCHARGE CYCLE LIFE CURVE



CYCLES & CAPACITY RETENTION RATE, 0.2C



DISCHARGE CURVES AT DIFFERENT TEMPERATURE

