



**NON-SPILLABLE**

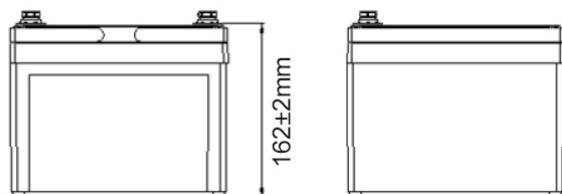
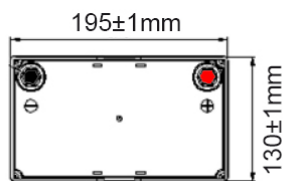


**LiFePO4**

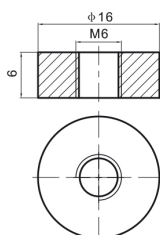
FLP Series are Lithium Iron Phosphate (LiFePO4) batteries specially designed to replace lead acid batteries thanks to their standard size cases and their similar charging voltage. The FLP Series offer many advantages compared to lead acid in terms of weight, cyclic performance, safety and power. This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

## DIMENSIONS & WEIGHT

LENGTH	195±1mm
WIDTH	130±1mm
HEIGHT	162±2mm
WEIGHT	4.2kg (tolerance ± 3%)



## TERMINAL (MM)



## SPECIFICATION

Nominal voltage	12.8V (18650 - 4S20P)
Nominal capacity	36Ah (5hr)
Energy	460.8 Wh
Internal resistance	Approx 40mΩ
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	T6
Standard Charge	
Charge voltage	14.4±0.15V
Charge mode	Charge CC :0.2C to 14.4V, then 14.4V until current drops to 0.01C
Charge current	7.2A
Max. charge current	18A
Standard Discharge	
Continuous current	18A
Max. continuous current	≤36A
Max. pulse current	36-108A(≤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

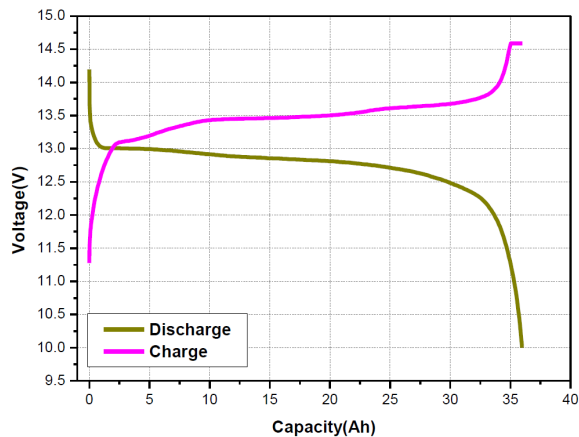


UPS

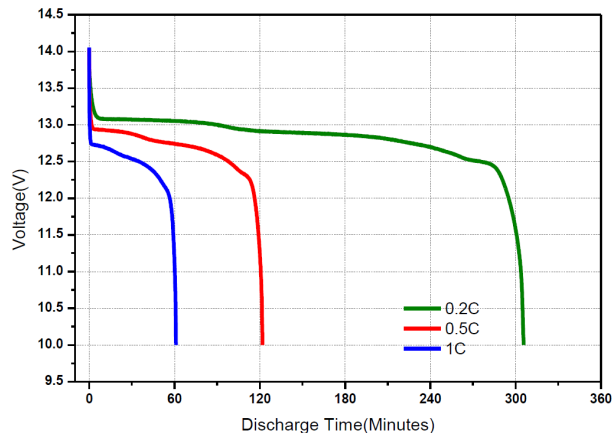
## APPROVALS

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

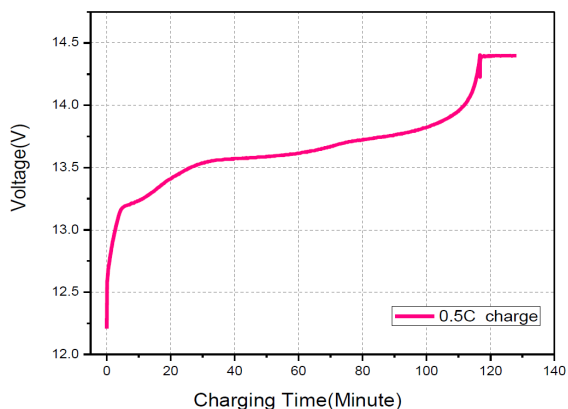
## CHARGE-DISCHARGE CURVE 0.2C, 25°C



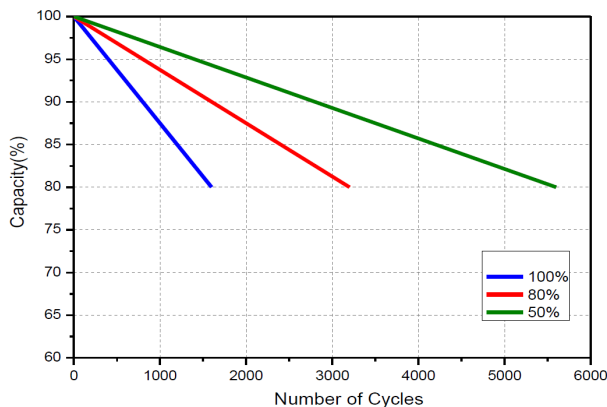
## DIFFERENT RATE DISCHARGE TIME & VOLTAGE CURVE, 25°C



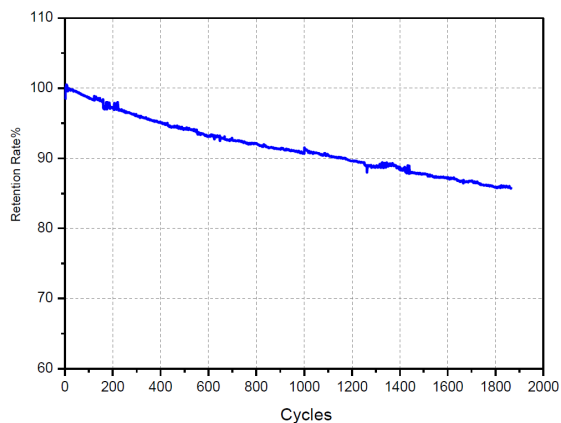
## VOLTAGE & CHARGING TIME CURVE, 0.5C, 25°C



## DIFFERENT DOD DISCHARGE CYCLE LIFE CURVE



## CYCLES & CAPACITY RETENTION RATE, 0.2C



## DISCHARGE CURVES AT DIFFERENT TEMPERATURE

