

PERFORMANCE SPECIFICATIONS

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|-------------------------|--|
| Nominal Voltage | 12.8V |
| Nominal Capacity | 4.5 Ah (C5,25 [°]) |
| Energy | 57.6 Wh |
| Internal Resistance | ≤100mΩ |
| Cycle Life | >10,000 @50%DOD >6,000 @80%DOD >2,000 @100%DOD |
| Self Discharge Rate | <1% per month |
| Efficiency of Charge | 100% @0.5C |
| Efficiency of Discharge | 96~99% @1C |

CHARGE SPECIFICATIONS

| | |
|------------------------|---------------------------|
| Charge Voltage | 14.4 ± 0.15V |
| Charge Mode | CC/CV 14.4V / Float 13.8V |
| Charger Current | 1A |
| Max. Charge Current | 2.25A |
| Charge Cut-off Voltage | 15.6V ± 0.2V |

DISCHARGE SPECIFICATIONS

| | |
|---------------------------|-------------|
| Max Continuous Current | 2.25A |
| Max Continuous Current | ≤8A (≤5min) |
| Discharge Cut-off Voltage | 10V |

MECHANICAL SPECIFICATIONS

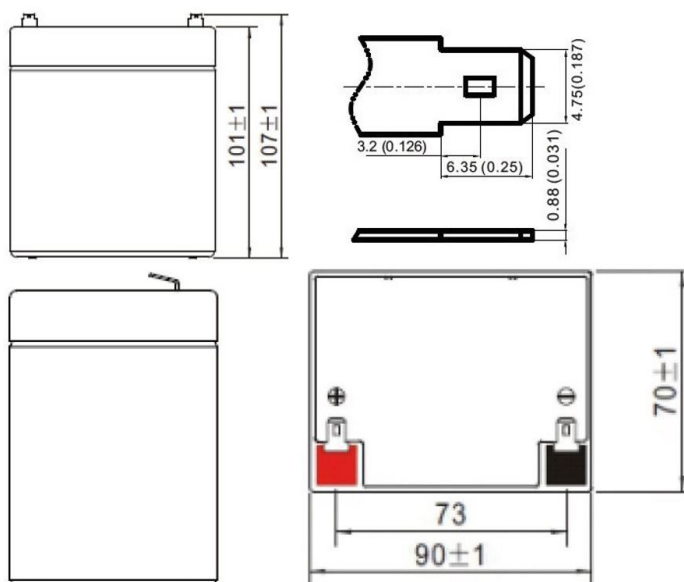
| | |
|---------------------------|---|
| Plastic Case | ABS |
| Dimensions (L x W x H) | 3.50 x 2.75 x 4.00 in (89 x 70 x 102 mm) |
| Weight (lbs./kg.) | 0.67kg (1.478lbs) |
| Terminal | T1 |
| SOC Meter | N/A |
| Protocol (Optional) | SMBus/RS485/RS232 |
| USB (Optional) | 5.0V1/2A |

ENVIRONMENTAL SPECIFICATIONS

| | |
|-----------------------|--|
| Charge Temperature | 0C to 45C (32F to 113F) @60±25% Relative Humidity |
| Discharge Temperature | -20C to 60C (-4F to 140F) @60±25% Relative Humidity |
| Storage Temperature | 0C to 40C (32F to 104F) @60±25% Relative Humidity |
| Water Dust Resistance | IP56 |



Replaces battery type
PS-1250 / UB1250

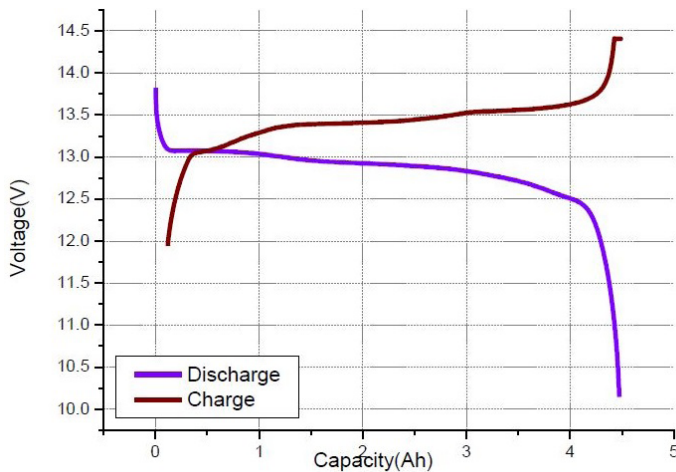


POWERSYNC Energy Solutions has developed a large selection of small form Lithium Iron Phosphate (LiFePO4) batteries which are specifically designed as drop in replacements for standard BCI Group Size lead acid batteries and battery banks.

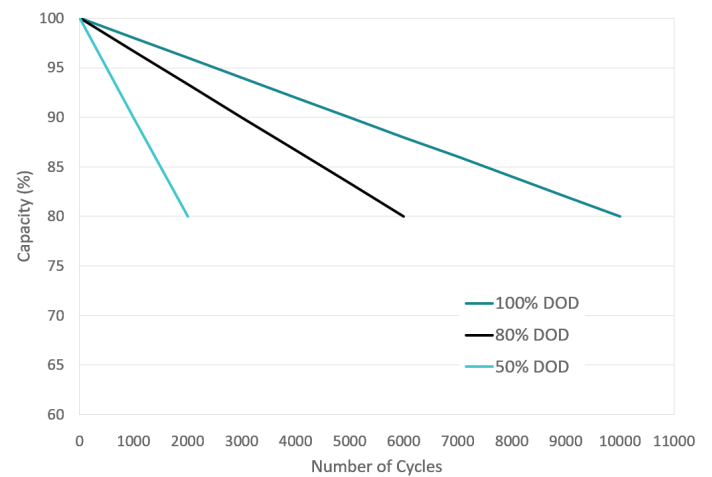
LiFePO4 batteries represent an advancement in safety due to cell design with advanced battery management systems including under and over voltage, over discharge, over current, over temperature, and short circuit protections which ensures safe and efficient operation.



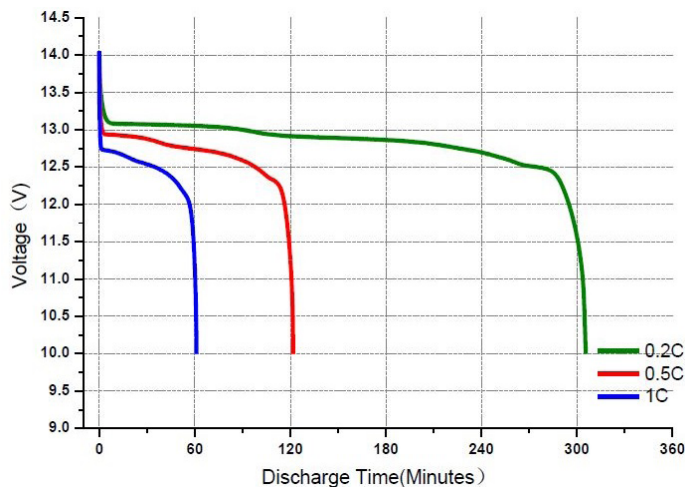
Charge / Discharge Curve



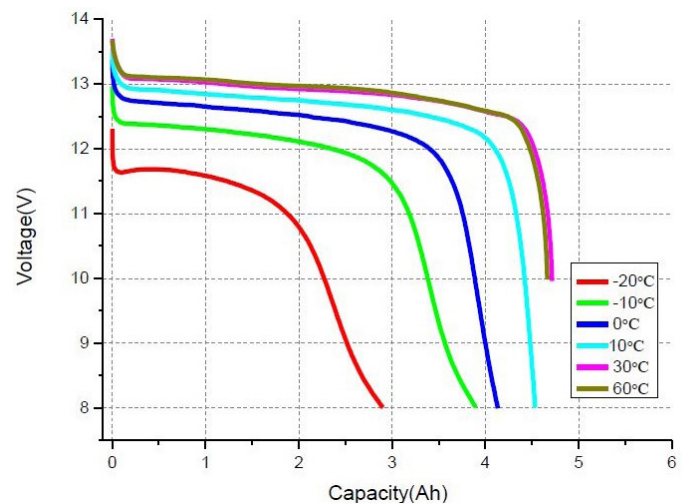
Different DOD Discharge Cycle Life Curve



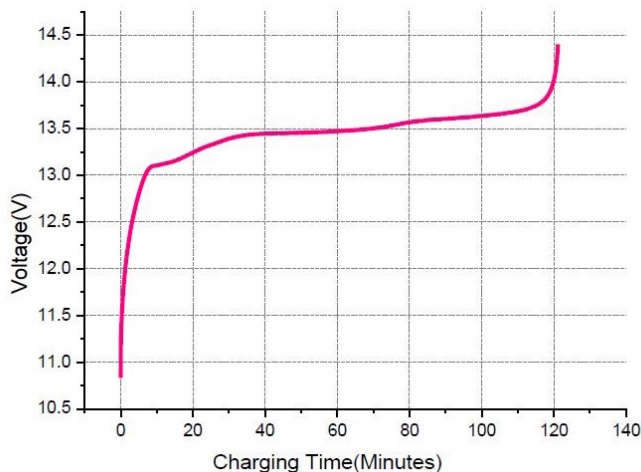
Different Rate Discharge Curve



Discharge Curves at Different Temperature



Voltage and Charge Rate Curve



Cycles and Capacity Retention Rate

