

PERFORMANCE SPECIFICATIONS

Nominal Voltage	12.8V
Nominal Capacity	100 Ah (C5,25C)
Energy	1280 Wh
Internal Resistance	≤20mΩ
Cycle Life	>5000 @50%DOD >3000 @80%DOD >2000 @100%DOD
Self Discharge Rate	<1% per month
Efficiency of Charge	100% @0.5C
Efficiency of Discharge	96~99% @1C

CHARGE SPECIFICATIONS

Charge Voltage	14.6 ± 0.2V
Charge Mode	CC/CV 14.6V / Float 13.8V
Charger Current	50A = 0.5C
Max Charge Current	100A = 1C
Charge Cut-off Voltage	15.6V ± 0.2V

DISCHARGE SPECIFICATIONS

Max Continuous Current	100A = 1C
Max Pulse Current	120A (<3s) = 1.2C
Reserve Capacity @25A	240 Min
Reserve Capacity @50A	120 Min
Discharge Cut-off Voltage	10V

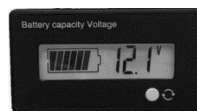
MECHANICAL SPECIFICATIONS

Plastic Case	ABS (Group 31)
Dimensions (in./mm.)	12.88 x 6.75 x 8.38 in. (327 x 172 x 213 mm)
Weight (lbs./kg.)	31 lbs. (14 kg)
Terminal	M8
SOC Meter	LED - Standard

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 Group 31 /
PS 121100 / UB12100



Standard
SOC Meter



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.

Features

Longer Cycle Life: Offers a significant longer cycle life and longer float/calendar life than lead acid batteries helping to minimize replacement cost and reduce total cost of ownership. LiFePO4 batteries are designed for 8,000 Cycles at 30% DOD, 5,000 Cycles at 50% DOD, and 3,000 Cycles at 80% DOD.

More Energy: Delivers significantly more energy than lead acid batteries, even at high discharge rate while maintaining high energy capacity.

Advanced BMS Protection: Under/Over voltage and current protection ensuring safe and efficient operation.

Charging: With quality microprocessor controlled chargers

Safety: Advanced LiFePO4 cell design includes various safeguards including high temp thermal fuse, flame retardant additive and pressure relief valves.

Increased Flexibility: LiFePO4 batteries are a drop-in replacement of lead acid batteries. Modular design enables deployment of up to four batteries in series and up to ten batteries in parallel.

SOC Meter: Standard LED Display

Ultra Low Self Discharge Curve: <1% per month



Due to continuing product improvements, POWERSYNC reserves the right to change specifications without notice. For most current data, please contact your POWERSYNC Energy Solutions representative.
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