

MKBLI12400 12.8V 40Ah



Longer Cycle Life: Offers up to 20 times longer cycle life and five times longer float/calendar life than lead acid battery, helping to minimize replacement cost and reduce total cost of ownership.

Lighter Weight: About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement for lead acid batteries.

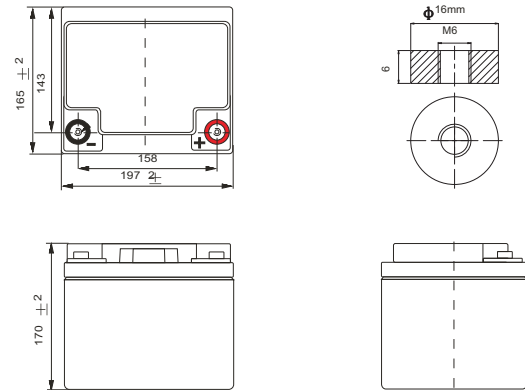
Higher Power: Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.

Wider Temperature Range: -20 C-60 C.

Superior Safety: Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation.



Physical Dimension-mm



Performance Characteristics

Nominal Voltage	12.8V
Nominal Capacity	40Ah
Energy	512Wh
Internal Resistance(AC)	≤30mΩ
Cycle Life	>2000 cycles @ 1C 100% DOD
Months Self Discharge	<3%
Efficiency of charge	100% @ 0.5C
Efficiency of Discharge	96-99% @ 1C
Charge Voltage	14.6±0.2V
Charge Mode	0.2C to 14.6V, then 14.6V, charge current to 0.02C (CC/CV)
Charge Current	20A
Max. Charge Current	40A
Charge Cut-off Voltage	14.6V±0.2V
Rated Discharge Current	20A
Max. Discharge Current	40A
Discharge Cut-off Voltage	10V
Charge Temperature	0 °C to 55 °C (32F to 131F) @60±25% Relative Humidity
Discharge Temperature	-20 °C to 60 °C (-4F to 140F) @60±25% Relative Humidity
Storage Temperature	-20 °C to 45 °C (-4F to 113F) @60±25% Relative Humidity
IP Class	IP65
Plastic Case	ABS
Approx. Dimensions	197mm*165mm*170mm (7.76in.*6.50in.*6.69in.)
Approx. Weight	5.40kg (11.90lbs)
Terminal	M6

Applications

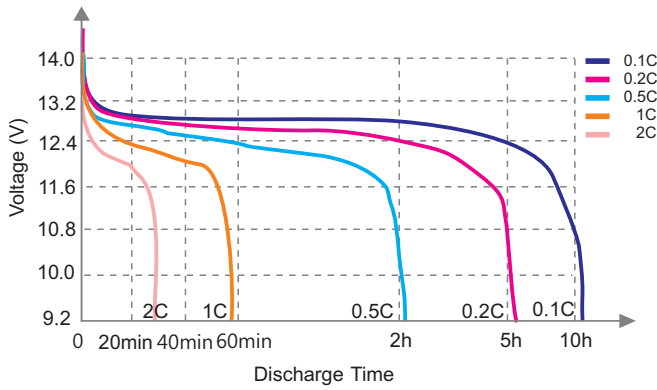
- Wheelchairs and scooters
- Solar / wind energy storage
- Back-up power for small
- UPS Golf trolleys & buggies
- Electric bikes
- Tools

(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.

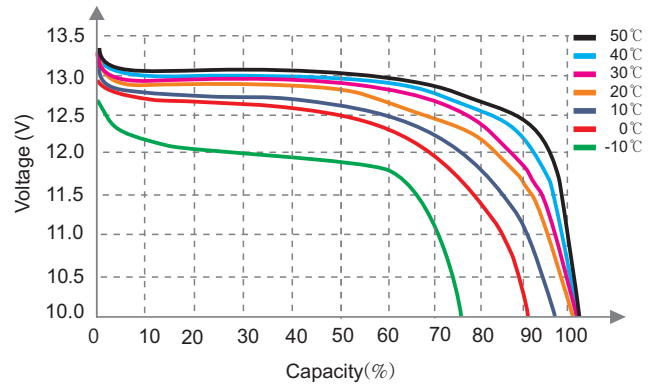
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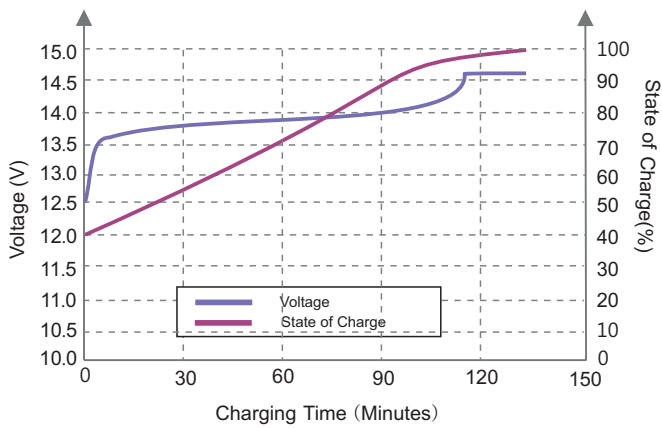
Different Ratio Discharge Curve (25°C)



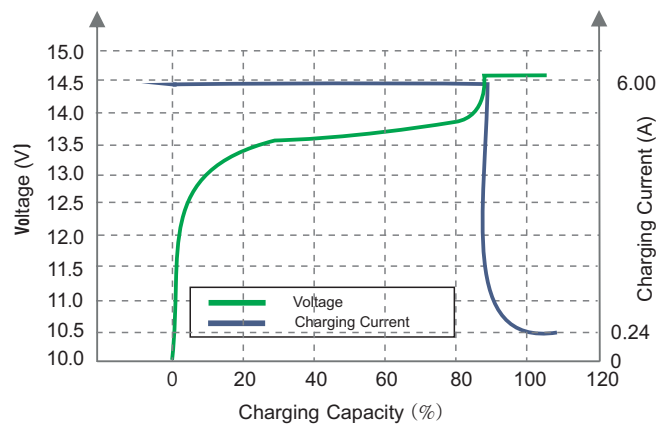
Different Temperature Discharge Curve (0.5C)



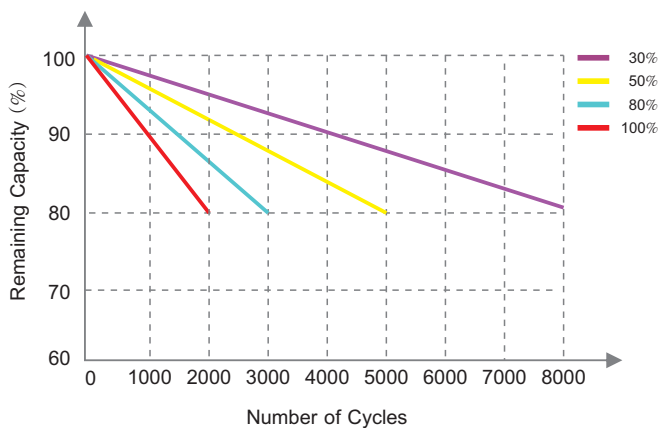
State of charge Curve (0.5°C, 25°C)



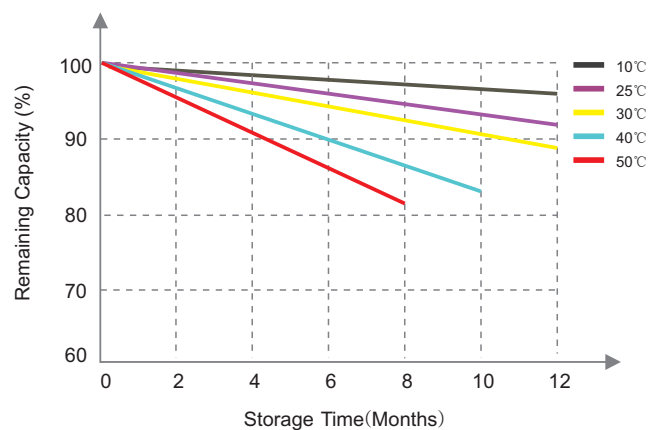
Charging Characteristics (0.5°C, 25°C)



Satate of charge Curve (0.5°C, 25°C)



Satate of charge Curve (0.5°C, 25°C)



IMPORTANT NOTE: The specifications presented herein are subject to revision without notice.