

KBLI1270 12.8V 7.0Ah



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.

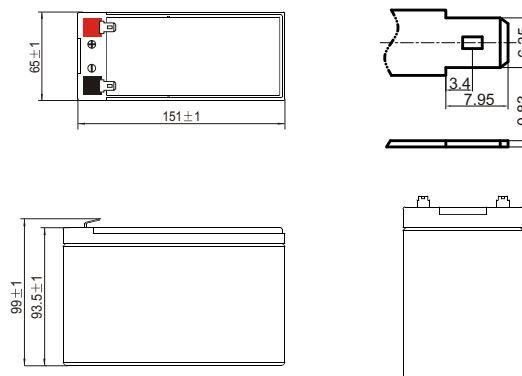
Lighter Weight: About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement for lead acid batteries.

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	7.0Ah
Energy	89.6Wh
Internal Resistance(AC)	$\leq 60\text{m}\Omega$
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	4.0A
Max. Charge Current	7.0A
Charge Cut-off Voltage	14.6V±0.2V
Rated Discharge Current	4.0A
Max. Discharge Current	7.0A
Discharge Cut-off Voltage	10.0V
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	151mm*65mm*99mm (5.95in.*2.56in.*3.90in.)
Approx. Weight	0.93kg (2.05lbs)
Terminal	T2

Applications

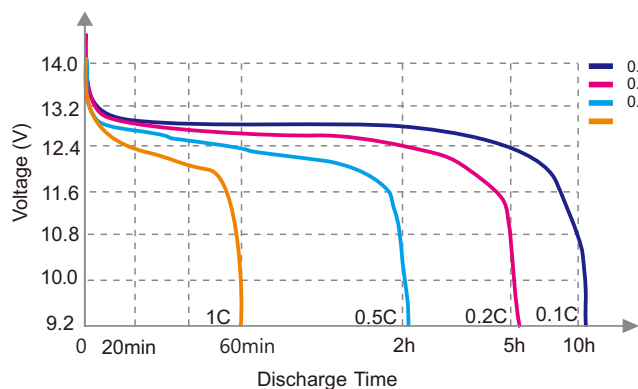
Wheelchairs and scooters
Solar / wind energy storage
Back-up power for small UPS
Golf trolleys & buggies
Electric bikes
Tools

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

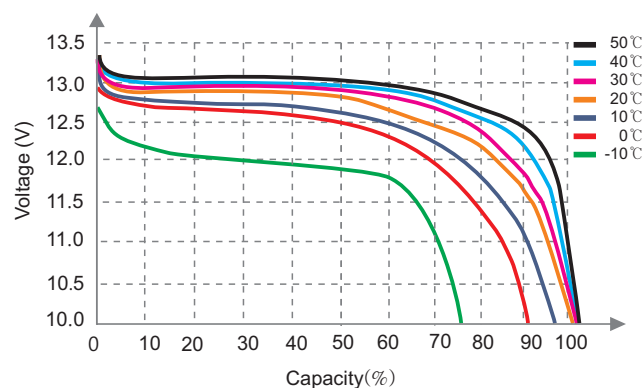
KBLI12200 12.8V 7.0Ah



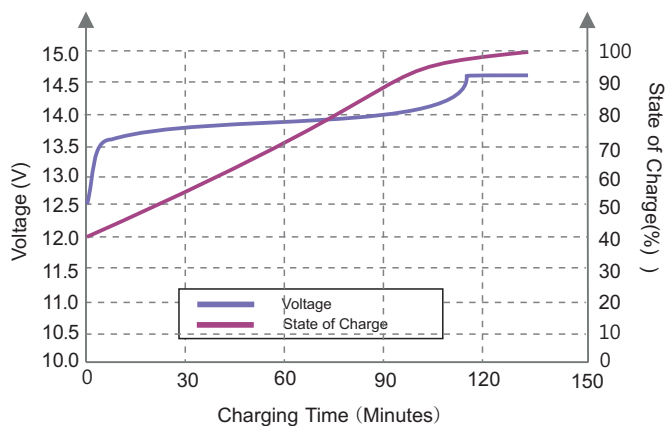
Different Rate Discharge Curve (25°C)



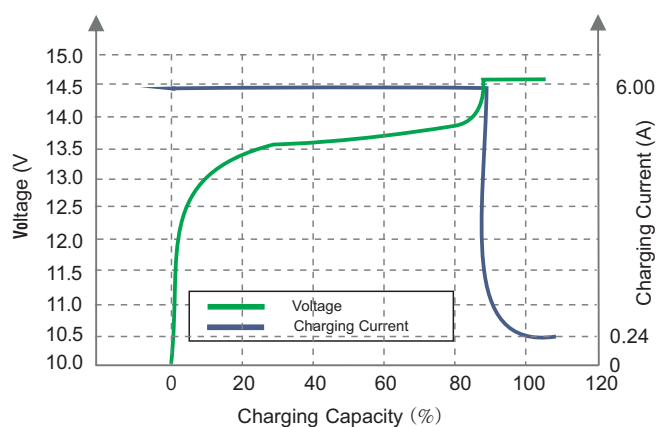
Different Temperature Discharge Curve (0.5C)



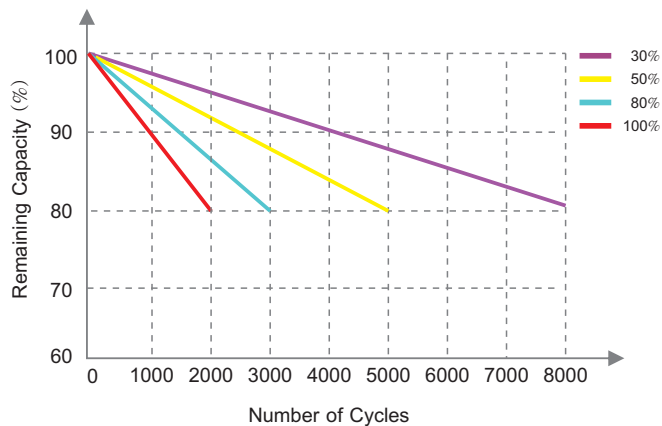
Satate of charge Curve (0.5°C, 25°C)



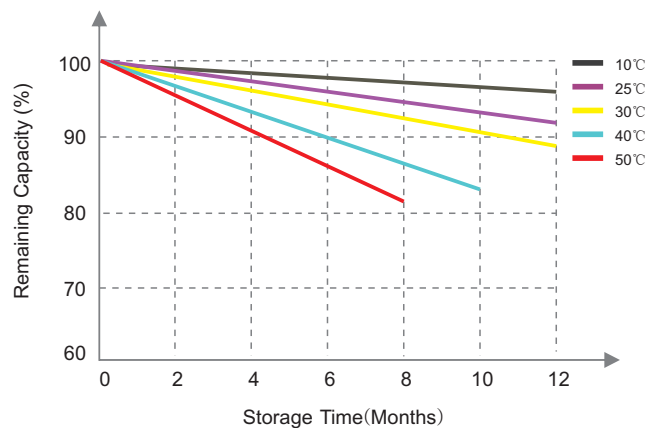
Charging Characteristics (0.5°C, 25°C)



Different DOD Discharge Cycle Life Curve (1C)



Different Temperature Self Discharge Curve



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