

# 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.

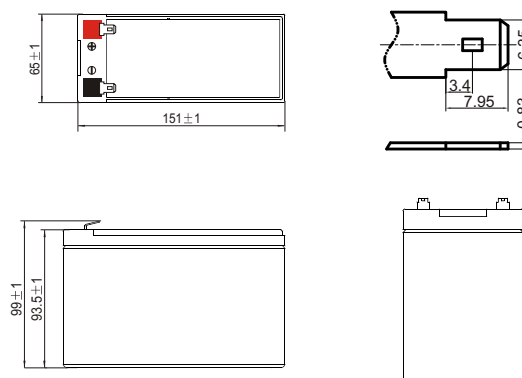
**Higher Power:** Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.

**Wider Storage Temperature Range:** -20 °C~60 °C.

**Superior Safety:** Prismatic 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
Cycle Life	>2000 cycles @ 1C 100%DOD
Efficiency of charge	100% @0.5C
Efficiency of Discharge	96~99% @1C
Charge Voltage	14.6
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
Max. Discharge Current	7.0A
Discharge Cut-off Voltage	10.0V
Operating Humidity	0-95% RH (No condensing)
Operating Temperature range	Charge: 0 ~+50°C Discharge: -20 ~+55°C
IP Class	IP65
Plastic Case	ABS
Approx. Dimensions	151mm*65mm*99mm (5.95in.*2.56in.*3.90in.)
Approx. Weight	0.93kg (2.05lbs)
Terminal	F1
Protection	Over voltage, Over discharge, Over Temperature, Short circuit
Certification	UN38.3, CE
Parallels Support	Yes, Max, 2 Sets
Series Support	Yes, Max, 4 Sets

## Applications

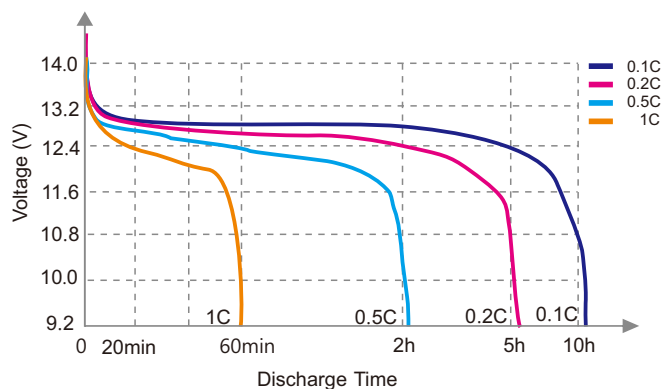
Wheelchairs and scooters  
Solar / wind energy storage  
Back-up power for small UPS  
Golf trolleys & buggies  
Electric bikes  
Tools

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

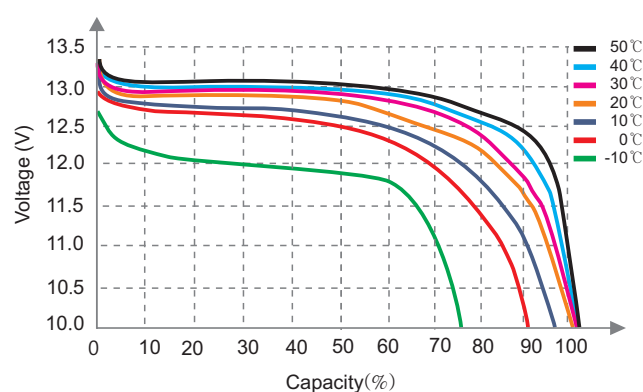
# KBLI12200 12.8V 7.0Ah



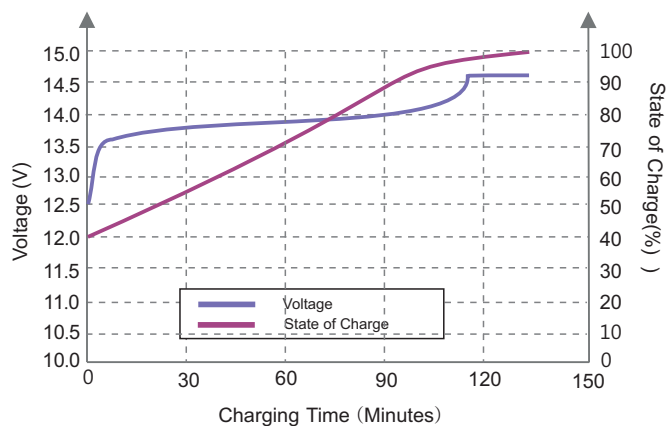
## Different Rate Discharge Curve (25°C)



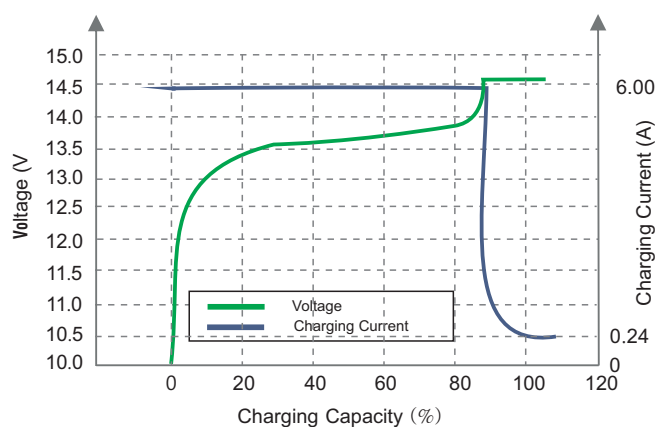
## Different Temperature Discharge Curve (0.5C)



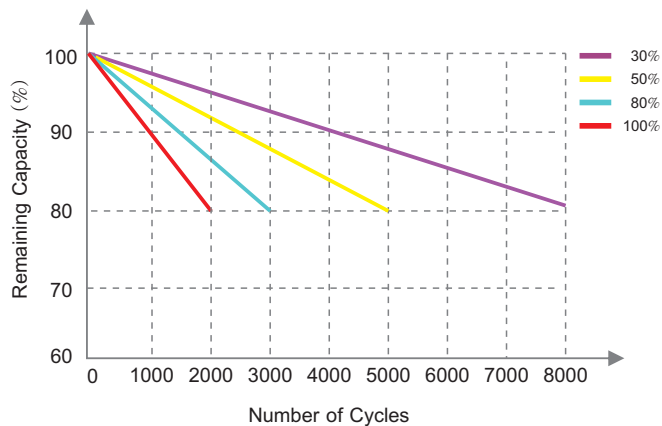
## State of charge Curve (0.5°C, 25°C)



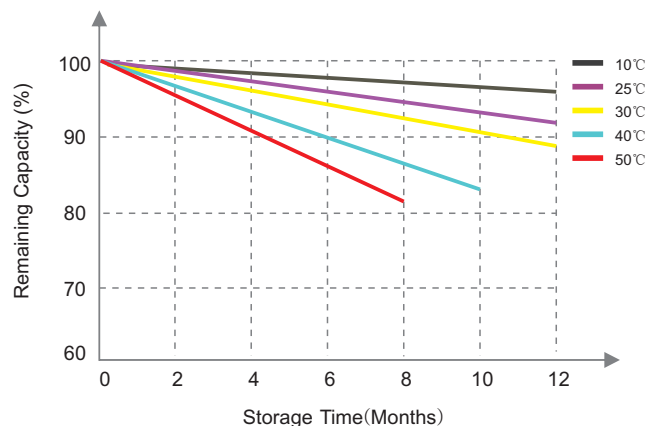
## Charging Characteristics (0.5°C, 25°C)



## Different DOD Discharge Cycle Life Curve (1C)



## Different Temperature Self Discharge Curve



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

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2020/11/1