

# KBLI12400 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.

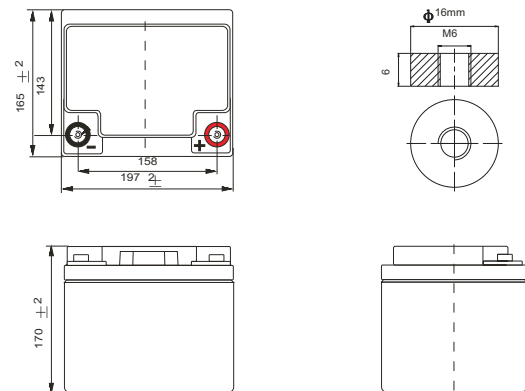
**Higher Power:** Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.

**Wider 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	40Ah
Energy	512Wh
Cycle Life	>2000 cycles @ 1C 100%DOD
Efficiency of charge	100% @ 0.5C
Efficiency of Discharge	96-99% @ 1C
Charge Voltage	14.6V
Charge Mode	0.2C to 14.6V, then 14.6V, charge current to 0.02C (CC/CV)
Charge Current	20A
Max. Charge Current	40A
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

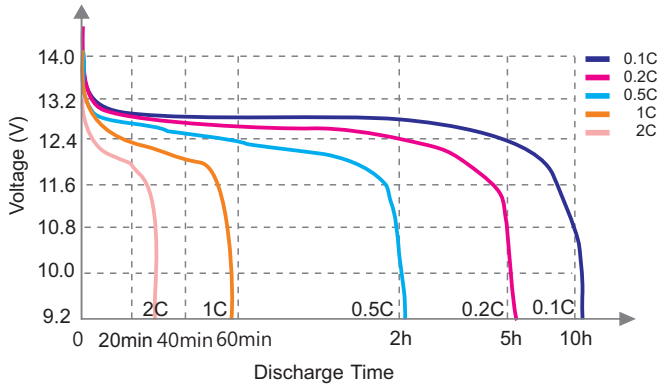
- Wheelchairs and scooters
- Solar / wind energy storage
- Back-up power for small
- UPS Golf trolleys & buggies
- Electric bikes
- Tools

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

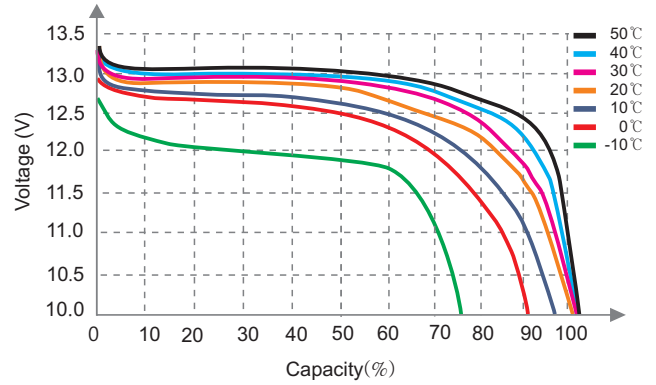
# KBLI12400 12.8V 40h



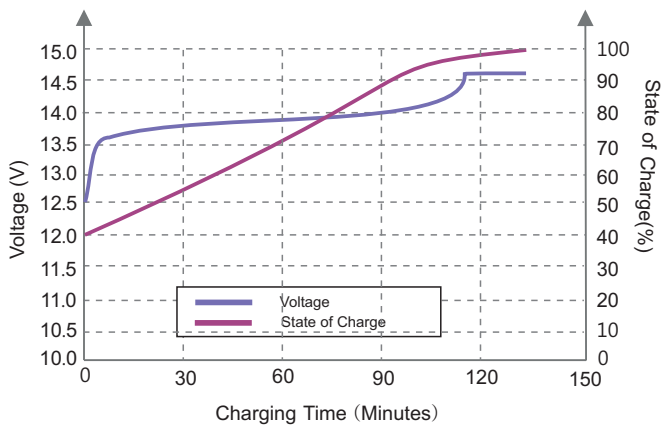
## Different Ratio Discharge Curve (25°C)



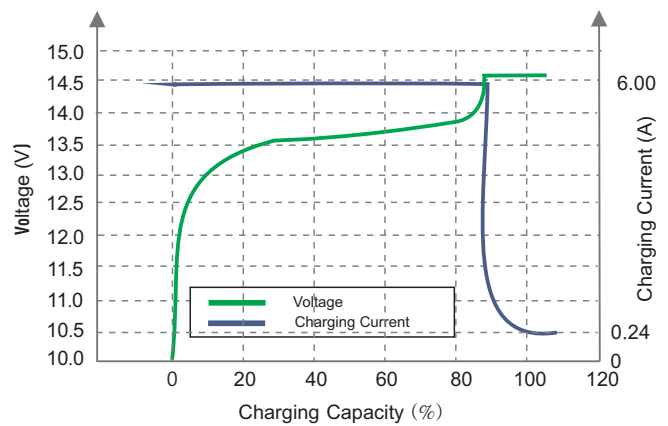
## Different Temperature Discharge Curve (0.5C)



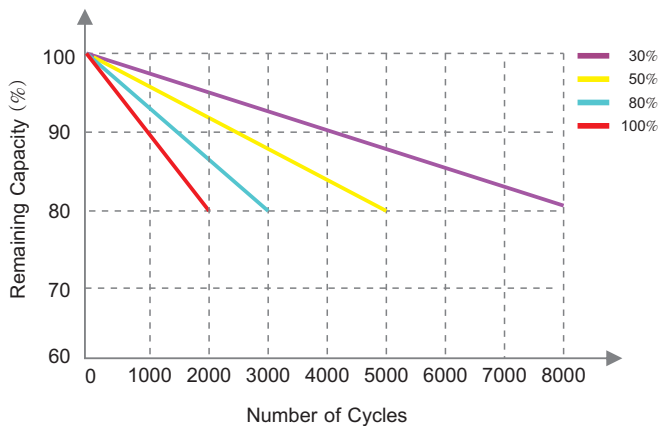
## State of charge Curve (0.5°C, 25°C)



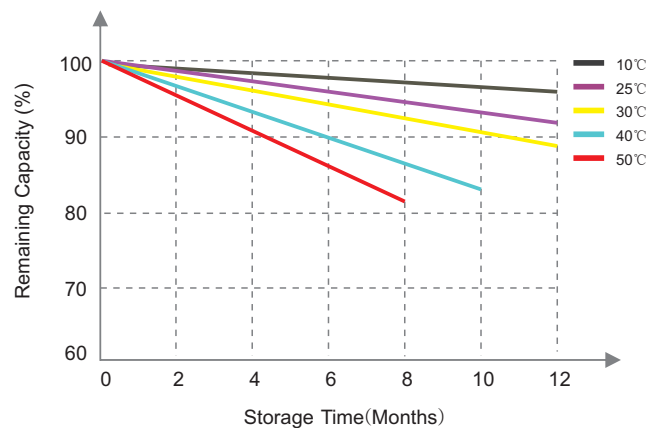
## Charging Characteristics (0.5°C, 25°C)



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



## Different Temperature Self Discharge Curve



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

Contacto  
[energy@tempelgroup.com](mailto:energy@tempelgroup.com)  
[www.tempelgroup.com](http://www.tempelgroup.com)

Tempel Group en el mundo  
 BARCELONA · MADRID · VALENCIA · BILBAO · SEVILLA · LISBOA · PORTO · BUENOS AIRES · LIMA  
 SANTIAGO DE CHILE · BOGOTÁ · SÃO PAULO · CIUDAD DE MÉXICO · CIUDAD DE PANAMÁ · MONTEVIDEO · QUITO

