

# KBLI12330 12.8V 33Ah



**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.

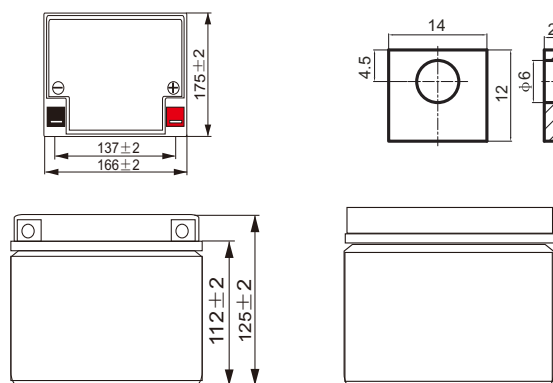
**Higher Power:** Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.

**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

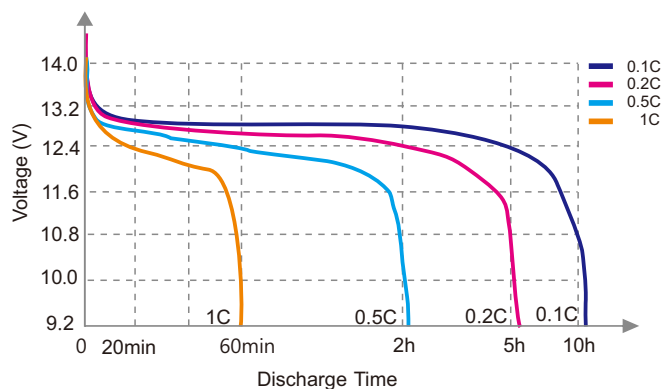
|                           |                                                           |
|---------------------------|-----------------------------------------------------------|
| Nominal Voltage           | 12.8V                                                     |
| Nominal Capacity          | 33Ah                                                      |
| Energy                    | 422Wh                                                     |
| Cycle Life                | >2000 cycles @ 1C 100%DOD                                 |
| 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            | 18A                                                       |
| Max. Charge Current       | 33A                                                       |
| Rated Discharge Current   | 18A                                                       |
| Max. Discharge Current    | 33A                                                       |
| 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        | 166mm*175mm*125mm (6.53in.*6.89in.*4.92in.)               |
| Approx. Weight            | 4.20kg (9.26lbs)                                          |
| Terminal                  | M5                                                        |

## Applications

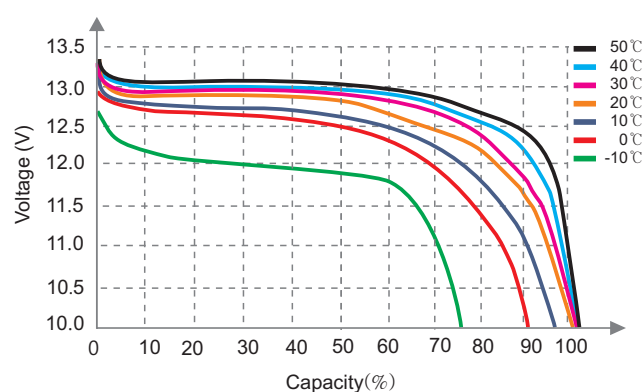
Wheelchairs and scooters  
Solar / wind energy storage  
Back-up power for small UPS  
Golf trolleys & buggies  
Electric bikes  
Tools

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

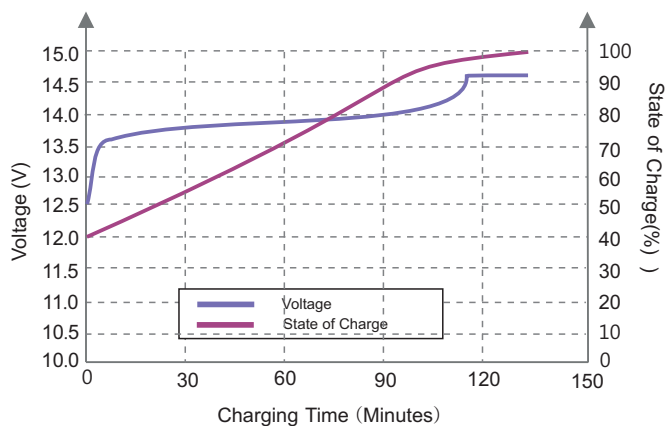
## Different Rate Discharge Curve (25°C)



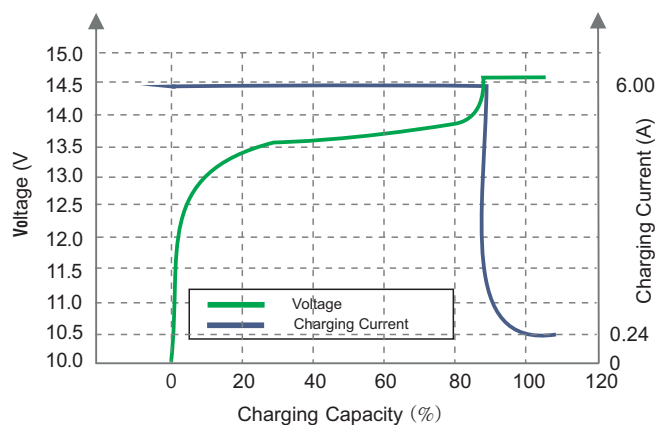
## Different Temperature Discharge Curve (0.5C)



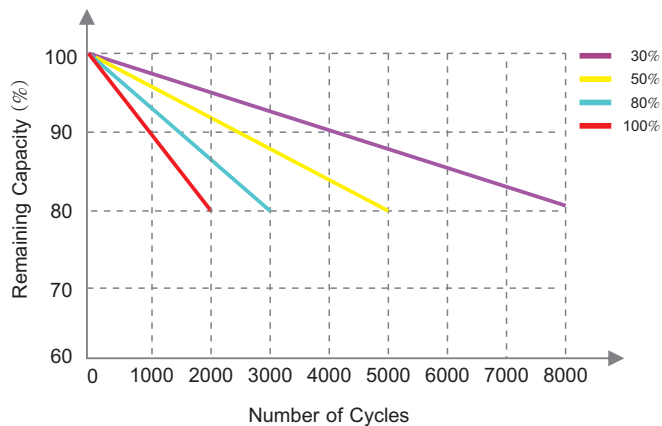
## State of charge Curve (0.5°C, 25°C)



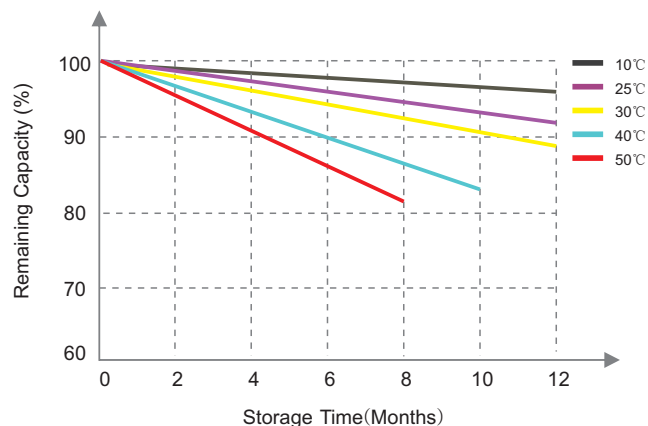
## Charging Characteristics (0.5°C, 25°C)



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



## Different Temperature Self Discharge Curve



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

