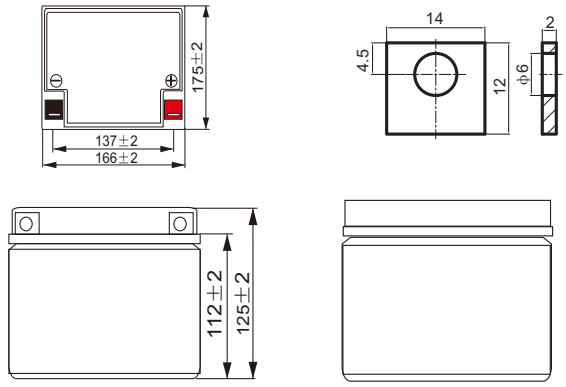
# KBLI12330 12.8V 33Ah

**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 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 | 33Ah |
| Energy | 422Wh |
| Internal Resistance(AC) | ≤40mΩ |
| Cycle Life | >2000 cycles @ 1C 100%DOD |
| Months Self Discharge | <3% |
| Efficency of charge | 100% @0.5C |
| Efficency 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 |
| Charge Cut-off Voltage | 14.6V±0.2V |
| Rated Discharge Current | 18A |
| Max. Discharge Current | 33A |
| Discharge Cut-off Voltage | 10V |
| Charge Temperature | 0 ℃to 55 ℃(32F to 131F) @60±25% Relative Humidity |
| Discharge Temperature | -20 ℃to 60 ℃(-4F to 140F) @60±25% Relative Humidity |
| Storage Temperature | -20 ℃to 45 ℃(-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 | T3 |

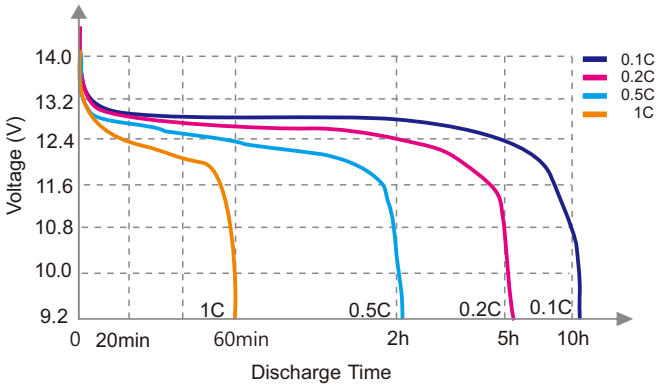
## Applications

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

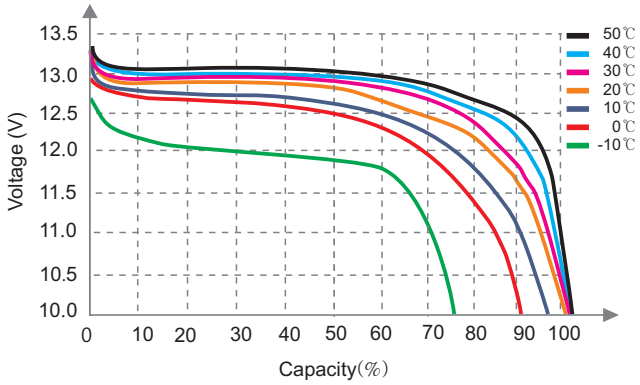
(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the mimimum values.

# KBLI12200 12.8V 33Ah

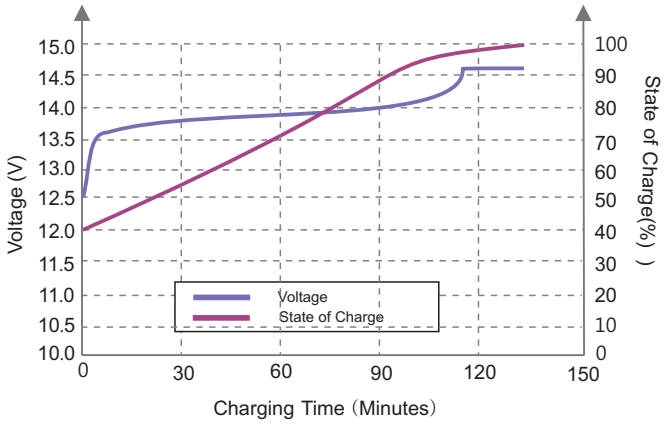
## Different Rate Discharge Curve (25ºC)



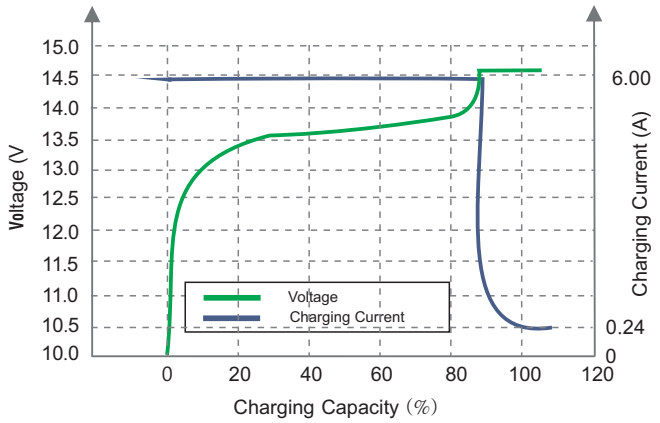

## Different Temperature Discharge Curve (0.5C)



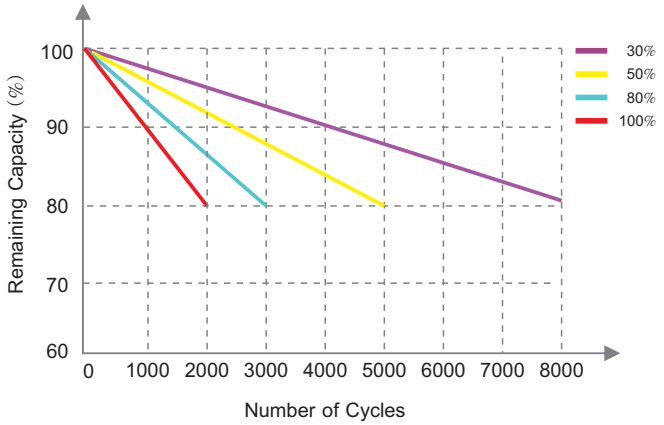

## Satate of charge Curve (0.5ºC, 25ºC)



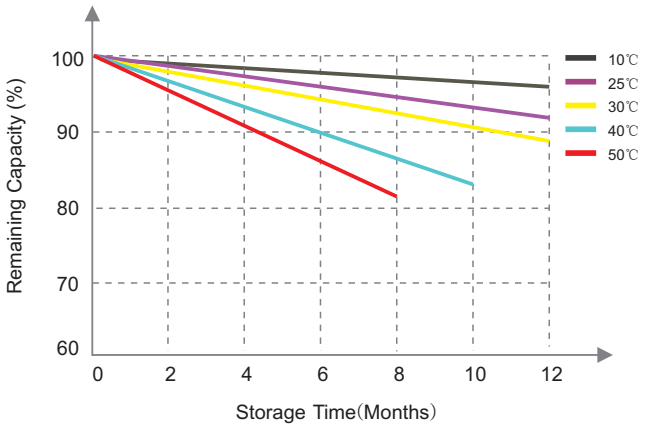

## Charging Characteristics (0.5ºC, 25ºC)




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




## Different Temperature Self Discharge Curve




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

2020/V1/L