

# KBLC122000S 12V 200Ah



The Kaise Lead Carbon Range provide not only high energy density but also high power, fast charge and discharge and longer life cycle in partial charge cycle (PSOC) applications. It is suitable for renewable energy, solar and wind power, as well as for energy storage systems (Energy Storage), among others.

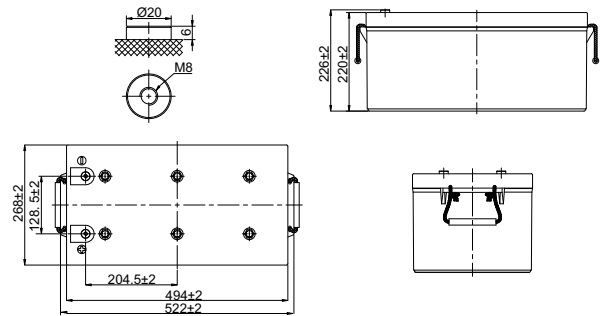
## Performance Characteristics

|                               |                                                                                                                                                                                                |                              |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| Nominal Voltage               | 12V                                                                                                                                                                                            |                              |
| Dimensions                    | Length (mm / inch)                                                                                                                                                                             | 522+2 / 20.6                 |
|                               | Width (mm / inch)                                                                                                                                                                              | 268+2 / 10.6                 |
|                               | Height (mm / inch)                                                                                                                                                                             | 220+2 / 8.66                 |
|                               | Total Height (mm / inch)                                                                                                                                                                       | 226+2 / 8.90                 |
| Approx. Weight                | (Kg / lbs)                                                                                                                                                                                     | 75.6 / 166.7                 |
| Design Life                   | 12 years                                                                                                                                                                                       |                              |
| Terminal                      | M8                                                                                                                                                                                             |                              |
| Container Material            | A.B.S.                                                                                                                                                                                         |                              |
| Rated Capacity                | 200 Ah / 20.0 A                                                                                                                                                                                | (10hr, 1.80V/c, 25°C / 77°F) |
|                               | 179 Ah / 35.8 A                                                                                                                                                                                | (5hr, 1.75V/c, 25°C / 77°F)  |
|                               | 111.1 Ah / 111.1 A                                                                                                                                                                             | (1hr, 1.75V/c, 25°C / 77°F)  |
| Max. Discharge Current(25°C)  | 100.0A                                                                                                                                                                                         |                              |
| Max. Charge Current(25°C)     | 40.0A                                                                                                                                                                                          |                              |
| Internal Resistance (25°C)    | Approx. 4.0mΩ                                                                                                                                                                                  |                              |
| Operating Temp. Range         | Discharge : -20 ~ 55°C (-4 ~ 131°F)                                                                                                                                                            |                              |
|                               | Charge : -20 ~ 40°C (-4 ~ 104°F)                                                                                                                                                               |                              |
|                               | Storage : -20 ~ 50°C (-4 ~ 122°F)                                                                                                                                                              |                              |
| Nominal Operating Temp. Range | 25±3°C (77±5°F)                                                                                                                                                                                |                              |
| Charge Voltage (25 °C)        | Cycle(Equalization) - 2.30~2.40V/cell<br>Temp. Coefficient - 4mV/cell/°C                                                                                                                       |                              |
| Self Discharge                | Fully charged Kaise Lead Carbon batteries may be stored for up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter. |                              |

## Constant Current Discharge (Amperes) at 25°C (77°F)

| Volts/cell | 30min | 1h    | 2h   | 5h   | 8h   | 10h  | 20h  |
|------------|-------|-------|------|------|------|------|------|
| 1.90V      | 118.2 | 86.0  | 53.6 | 29.7 | 21.3 | 17.6 | 9.40 |
| 1.85V      | 140.8 | 97.8  | 62.2 | 34.7 | 23.8 | 19.8 | 10.5 |
| 1.80V      | 157.6 | 107.5 | 66.2 | 35.4 | 24.4 | 20.0 | 10.7 |
| 1.75V      | 167.3 | 111.1 | 67.0 | 35.8 | 24.6 | 20.4 | 10.8 |

## Dimensions and Terminal (Unit: mm (inches))



## Applications

Home Energy Storage Systems  
Hybrid Power Supply Systems  
Renewable Energy Storage, Solar and Wind  
Grid frequency adjustment energy storage system  
Solar Street Lighting

## Certifications

ISO 9001 / ISO 14001



## Discharge Current vs. Discharge Voltage

| Final discharge voltage V/CELL | 1.8            | 1.75                    | 1.7                      | 1.6          |
|--------------------------------|----------------|-------------------------|--------------------------|--------------|
| Discharge current (A)          | $I \leq 0.1CA$ | $0.25CA \geq I > 0.1CA$ | $0.55CA \geq I > 0.25CA$ | $I > 0.55CA$ |

## Constant Power Discharge (Watts per cell) at 25°C (77°F)

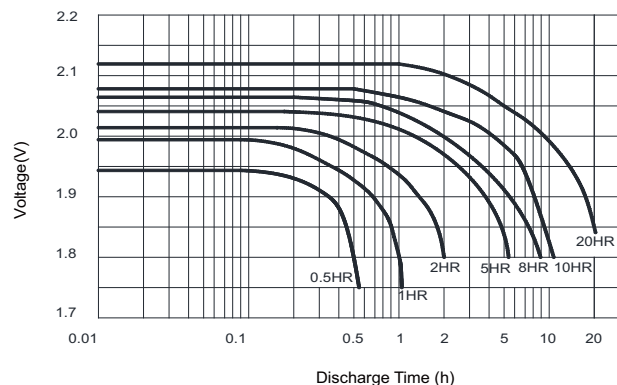
| Volts/cell | 30min | 1h    | 2h    | 5h   | 8h   | 10h  | 20h  |
|------------|-------|-------|-------|------|------|------|------|
| 1.90V      | 221.2 | 160.5 | 102.4 | 54.8 | 42.5 | 35.3 | 18.8 |
| 1.85V      | 268.1 | 191.1 | 120.8 | 64.4 | 48.5 | 40.0 | 21.0 |
| 1.80V      | 294.9 | 200.6 | 126.4 | 65.2 | 48.9 | 40.6 | 21.4 |
| 1.67V      | 313.5 | 207.7 | 127.0 | 65.9 | 49.3 | 40.8 | 21.6 |

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

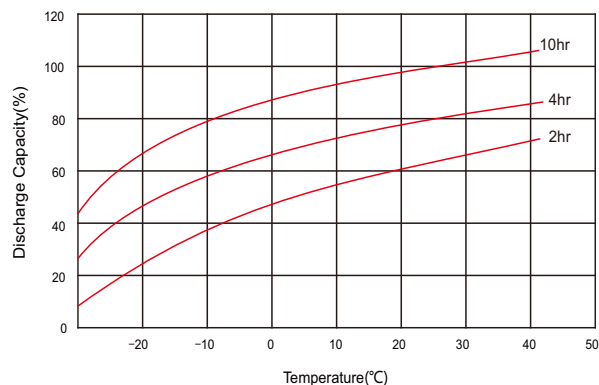
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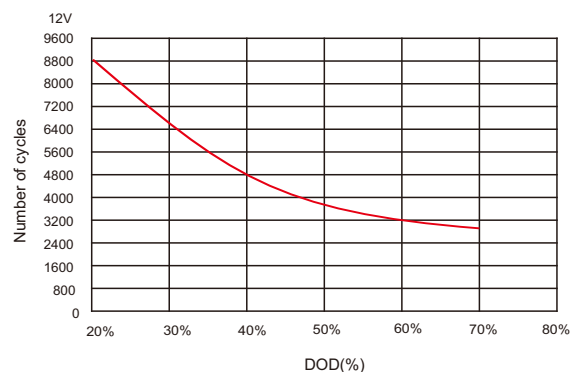
## Discharge Characteristics Curve



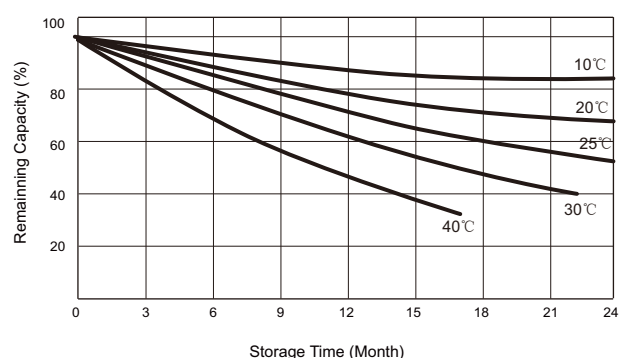
## Temperature effects in relation to battery capacity



## Cycle Life in Relation to DOD



## Self Discharge Characteristics



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

2024/V/L

