

# GC4865

## Golf Cart Lithium Battery



[ GC4865 ]

**Long Cycle Life:** provides up to 20 times longer cycle life and 5 times longer float/service life than lead acid, battery help to minimize replacement costs and reduce total cost of ownership.

**Smaller Footprint:** better gravimetric/volumetric specific energy up to 3 times compare with lead acid battery.

**More Available Energy:** deliver twice energy of the lead acid battery, when discharged with heavy load.

**Superior Safety:** build-in BMS——eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation with safe lithium iron phosphate chemistry.

**Fully compatible:** design to replace VRLA battery, compatible with conventional lead acid powered system.

### Technical Parameters

|                                       |                     |
|---------------------------------------|---------------------|
| Nominal Voltage (V)                   | 51.2                |
| Nominal Capacity (Ah)                 | 65                  |
| Total Energy (Wh)                     | 3328                |
| End Charge Voltage (V)                | 58.4                |
| Discharge Cut-off Voltage (V)         | 40                  |
| Float Charge Voltage (V)              | 55.2                |
| Standard Charge/Discharge Current (A) | 50 CH / 130 DCH     |
| Max. Charge/Discharge Current (A)     | 55 CH / 195 DCH     |
| Peak Output Current (A)               | 293 @1s             |
| Lithium Chemistry                     | LiFePO <sub>4</sub> |
| Cycle Life                            | 4500                |
| Design Life                           | 10 years            |

### Mechanical Specifications

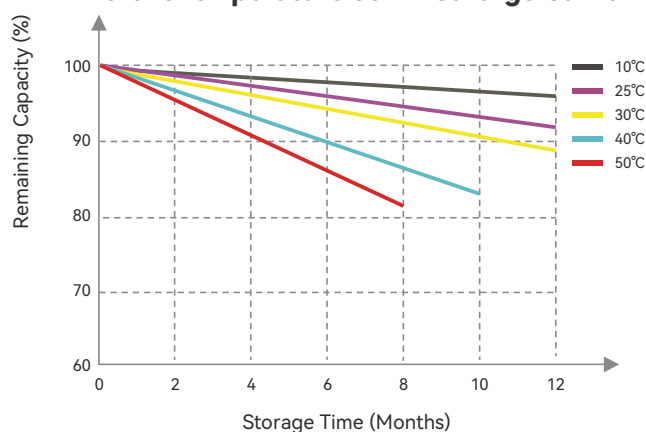
|                  |                    |
|------------------|--------------------|
| Dimension (mm)   | W433 * D278 * H244 |
| Weight (kg)      | Approx. 40         |
| Communication    | CAN                |
| Ingress Rating   | IP 67              |
| Safety Standards | UN38.3, CE         |

## Environmental Specifications

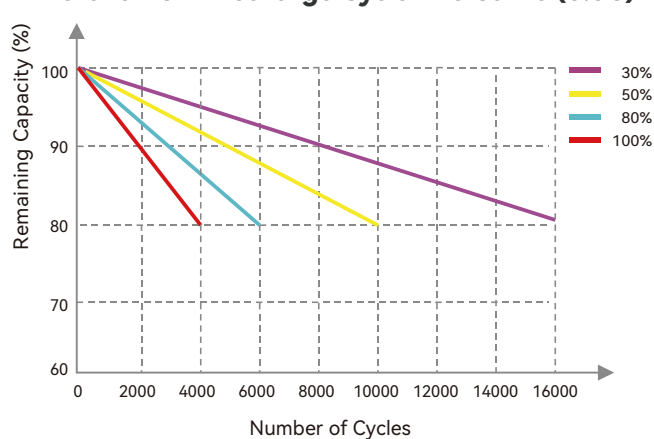
|                                      |                    |
|--------------------------------------|--------------------|
| Storage Temperature (°C)             | -20 ~ 45 (1 month) |
| Operating Temperature Charge (°C)    | 0 ~ 55             |
| Operating Temperature Discharge (°C) | -20 ~ 55           |
| Operating Relative Humidity          | 5 ~ 95%            |

## Operating Performance

**Different Temperature Self Discharge Curve**



**Different DOD Discharge Cycle Life Curve (0.5C)**



### Notes:

Battery should be kept in a dry and ventilated place, avoid direct contact with corrosive substances, also away from sources of fire and heat. Keep the SOC of the battery above 50% if you need to store it for an extended long period. It should be refresh charged every 3 months regularly and SOC should be maintained at about 50% if battery will be stored for a long term.

