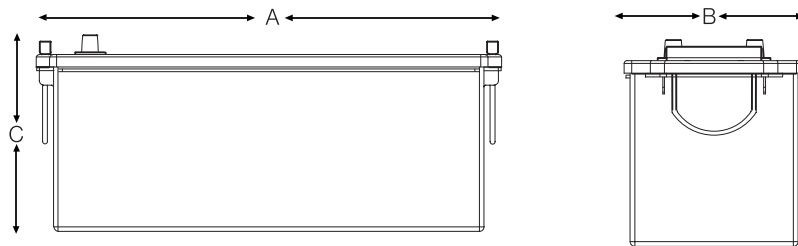
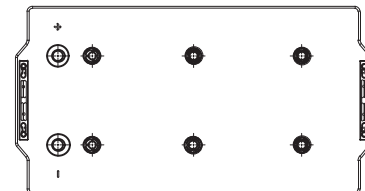


# EQ-Type C

## Carbon Nano Gel Bloc



Positive



Negative

### Electrical Specifications

|                                |  |
|--------------------------------|--|
| <b>Voltage</b>                 | 12V                                    |
| <b>M.R.C. 25 Amps</b>          | 430                                    |
| <b>80% DOD Voltage Cutoff</b>  | 11.2V                                  |
| <b>Low Voltage Cutoff</b>      | 10.8V                                  |
| <b>Self Discharge</b>          | Less than 3% per month (20°C/68°F)     |
| <b>Charge Temperature</b>      | Min: -10°C (14°F) / Max: 50°C (122°F)  |
| <b>Discharge Temperature**</b> | Min: -40°C (-40°F) / Max: 50°C (122°F) |
| <b>Storage</b>                 | Min: -20°C (-4°F) / Max: 60°C (140°F)  |

| Cell Type Ue<br>(100%) / VPC<br>Ref Temp | C5<br>1.70<br>25°C | C10<br>1.75<br>25°C | C20<br>1.75<br>25°C | C100<br>1.80<br>25°C |
|--|--------------------|---------------------|---------------------|----------------------|
| EQ-TYPE C                                | 177                | 200                 | 212                 | 230                  |

\*\* CAUTION: Depths of discharge, operating voltages and currents, when designing systems for use at maximum temperatures, will vary.

### Mechanical Specifications

| Industry Reference        | DIN C / BCI 8D (Reverse Polarity) |        |
|---------------------------|-----------------------------------|--------|
| <b>Length (A)</b>         | 20.4 in                           | 518 mm |
| <b>Width (B)</b>          | 10.8 in                           | 274 mm |
| <b>Height (C)</b>         | 8 in                              | 215 mm |
| <b>Weight</b>             | 150 lbs                           | 68 kgs |
| <b>Terminal (Opt'l)*</b>  | A-Pole                            |        |
| <b>Cell(s)</b>            | 6                                 |        |
| <b>Electrolyte</b>        | Gel                               |        |
| <b>Terminal Torque Nm</b> | n/a                               |        |

NOTE: There is a tolerance of +/-2%.

### Terminal Options Available:

**M8**  
**A-Pole**  
**Dual**  
**Stud**

### Features

Maintenance free - no topping up required

Ultra energy efficient due to low resistance

Reduced operating temperatures for increased cycle life (>1500 cycles) and battery lifetime

Cost savings due to increased efficiency

Up to 2 x faster recharge

Increased design life from 12 to 15 years

Allows for opportunity charging to give you those extra running times when required

Suitable for extreme temperature variants

### Applications: all motive, leisure & solar:

Electric vehicles, including cleaning machines

Wheelchairs

Electric Working Platforms

UPS Systems

Traffic Systems

Telecommunications & Emergency Lighting

Caravans / Motorhomes RV's & Maritime

Solar & Renewable Energy & Home Invertor

## Charging profile

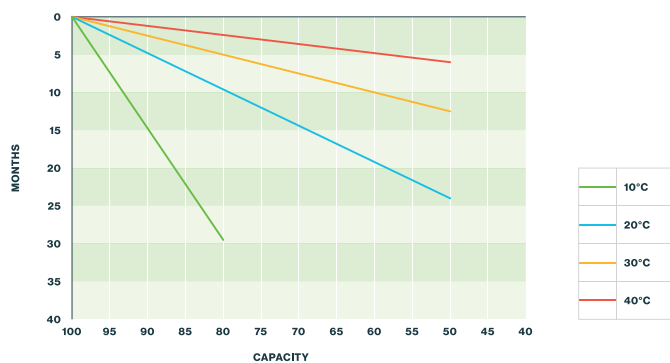
### IU Charging

$I = \text{min. } 12\% C_5 \text{ max. } 30\% C_5$   
 $U = 2.4 \text{ V per cell}$

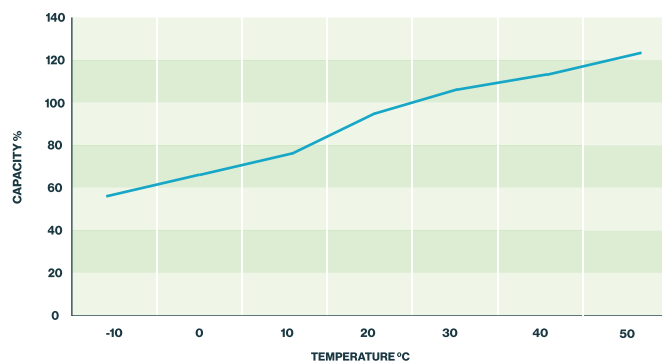
### IUI Charging

$I_1 = \text{min. } 12\% C_5 \text{ max. } 40\% C_5$   
 $U = 2.35 \text{ V per cell}$   
 $I_2 = 1.5\% C_5 \text{ for max. 4 hours}$

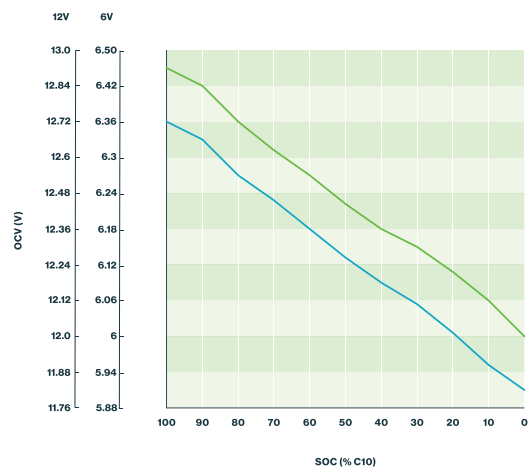
## Self discharge at different temperatures



## Capacity vs. temperature

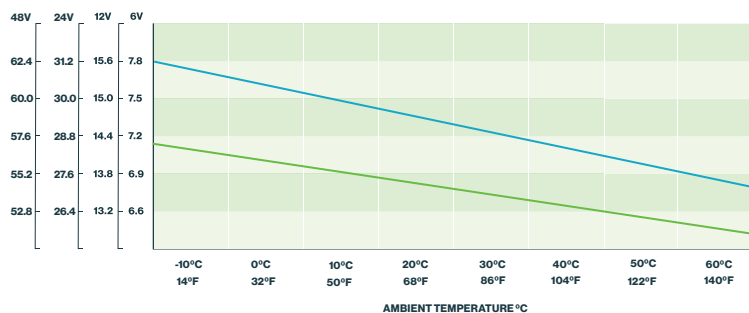


## Storage: Determine the state of charge



|   |         |
|---|---------|
| — | OCV max |
| — | OCV min |

## Relation between charging, voltage and temperature



|   |             |
|---|-------------|
| — | STANDBY USE |
| — | CYCLE USE   |