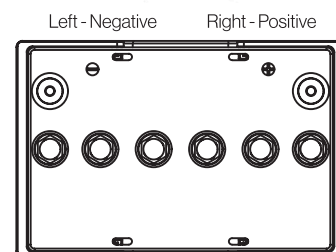
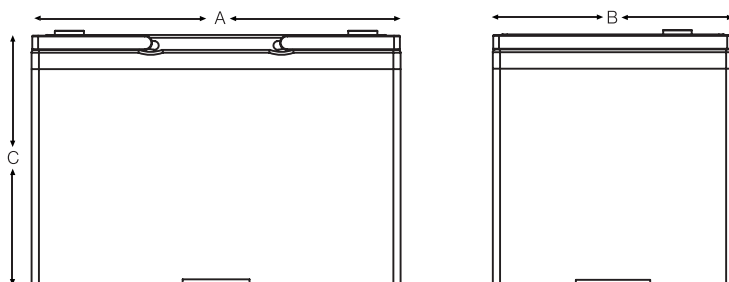


# EQ-34

## Carbon Nano Gel Bloc



### Electrical Specifications

<b>Voltage</b>	12V
<b>M.R.C. 25 Amps</b>	100
<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 (100%) / VPC Ref Temp	C5 1.70 25°C	C10 1.75 25°C	C20 1.75 25°C	C100 1.80 25°C
EQ-34	54	59	61	65

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

### Mechanical Specifications

Industry Reference	BCI34	
<b>Length (A)</b>	10 in	254 mm
<b>Width (B)</b>	6.6 in	168 mm
<b>Height (C)</b>	6.9 in	175 mm
<b>Weight</b>	46 lbs	21 kgs
<b>Terminal (Opt'l)*</b>	M6	
<b>Cell(s)</b>	6	
<b>Electrolyte</b>	Gel	
<b>Terminal Torque Nm</b>	6	

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

### Terminal Options Available:

M6  
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

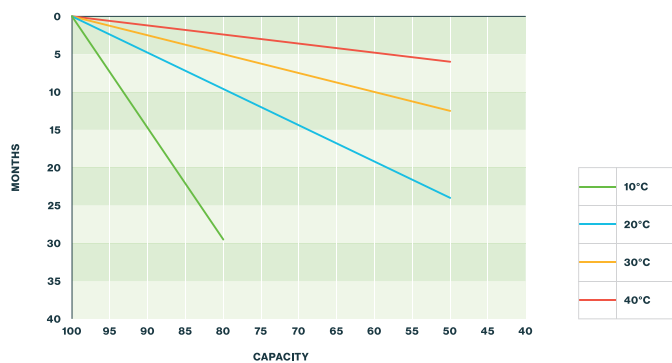
### IU Charging

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

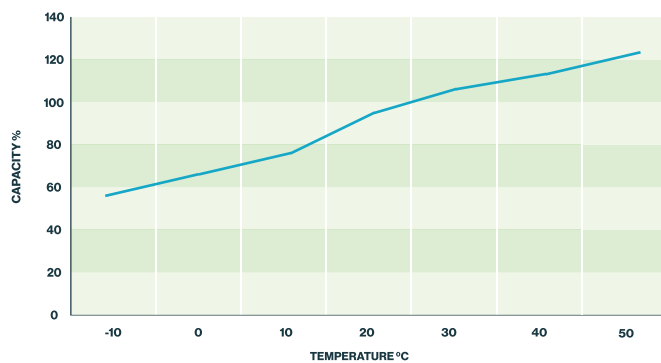
### IUI Charging

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

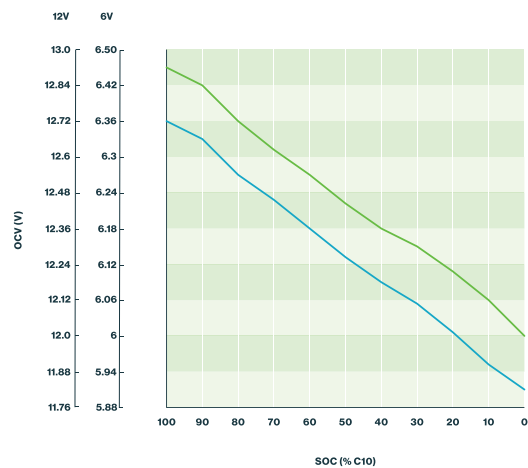
## Self discharge at different temperatures



## Capacity vs. temperature

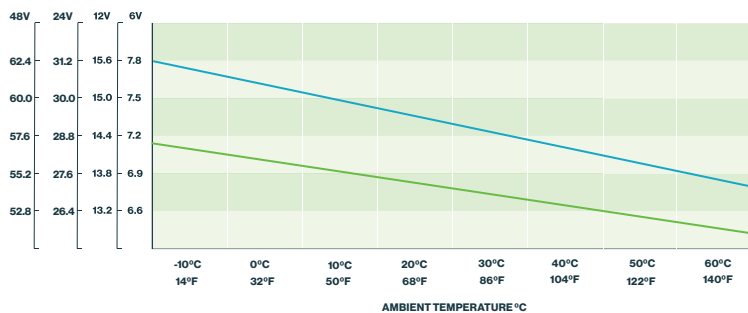


## Storage: Determine the state of charge



—	OCV max
—	OCV min

## Relation between charging, voltage and temperature



—	STANDBY USE
—	CYCLE USE