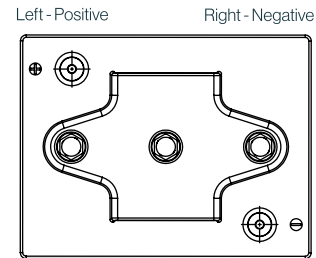
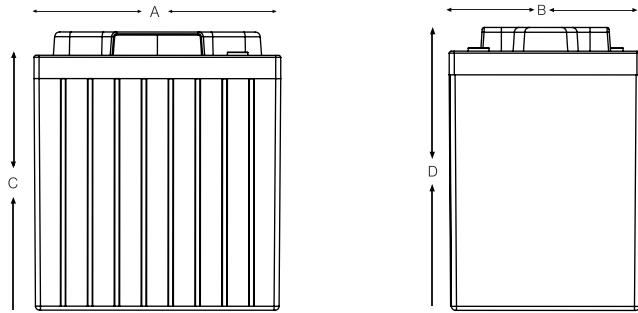


EQ-6180

Carbon Nano Gel Bloc



Electrical Specifications

| | |
|--------------------------------|--|
| Voltage | 6V |
| M.R.C. 25 Amps | 435 |
| 80% DOD Voltage Cutoff | 5.6V |
| Self Discharge | Less than 3% per month (20°C/68°F) |
| Charge Temperature | Min: -10°C (14°F) / Max: 50°C (122°F) |
| Discharge Temperature** | Min: -40°C (-40°F) / Max: 50°C (122°F) |
| Storage | 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-6180 | 184 | 198 | 210 | 225 |

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

Mechanical Specifications

| Industry Reference | - | |
|---------------------------|----------|--------|
| Length (A) | 9.57 in | 243 mm |
| Width (B) | 7.36 in | 187 mm |
| Height (C) | 10.79 in | 274 mm |
| Weight | 71 lbs | 32 kgs |
| Terminal (Opt'l)* | M8 | |
| Cell(s) | 3 | |
| Electrolyte | Gel | |
| Terminal Torque Nm | 8 | |

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

Terminal Options Available:
M8
A-Pole

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

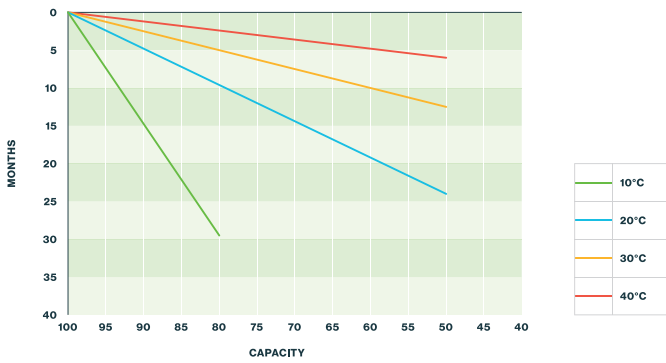
- Solar & Renewable Energy & Home Invertor

Charging profile

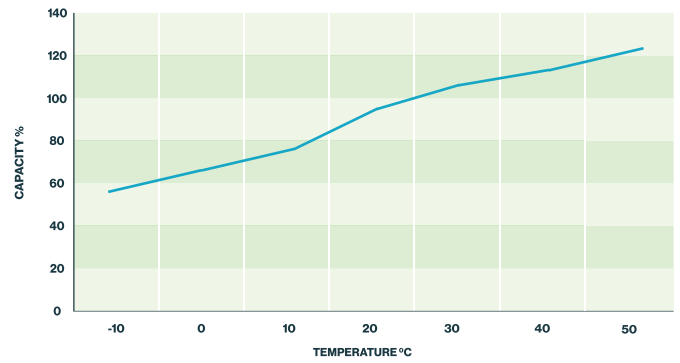
IU Charging I = min. 12% C₅ max. 30% C₅
U = 2.4 V per cell

IUI Charging I₁ = min. 12% C₅ max. 40% C₅
U = 2.35 V per cell
I₂ = 1.5% C₅ for max. 4 hours

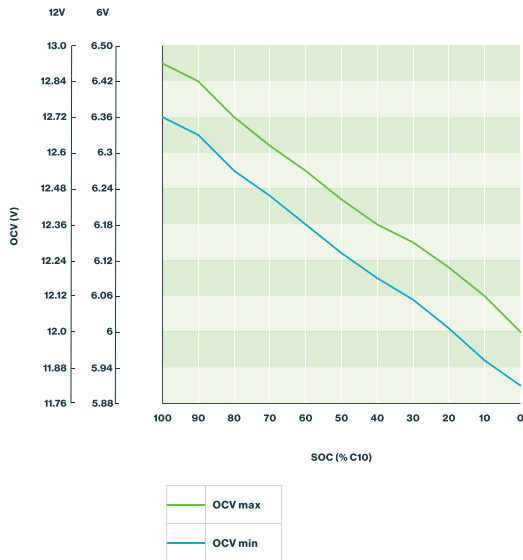
Self discharge at different temperatures



Capacity vs. temperature



Storage: Determine the state of charge



Relation between charging, voltage and temperature

