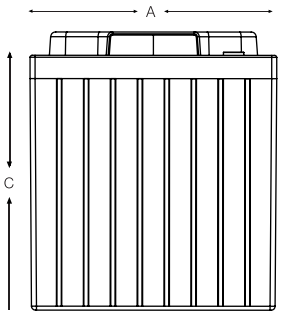
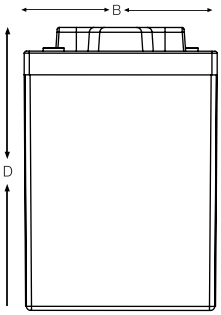
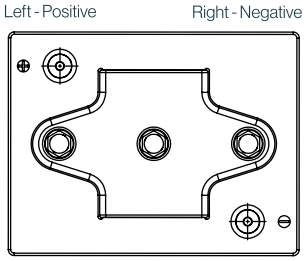
EQ-6180

Carbon Nano Gel Bloc







Electrical Specifications

Voltage	6V
M.R.C. 25 Amps	435
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)
Charge Methods	Float Voltage: 2.25 @ 25°C / 77°F Boost Voltage: 2.35 to 2.40VPC @ 25°C / 77°F
Temperature Compensation	±3.5mV/°C/Cell

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 ± 5%.

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 (up to 1000 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:

- Cleaning machines
- Wheelchairs
- Electric Working Platforms
- UPS Systems
- Traffic Systems
- Telecommunications & Emergency Lighting
- Caravans / Motorhomes RV's & Maritime
- Solar & Renewable Energy & Home Inverter

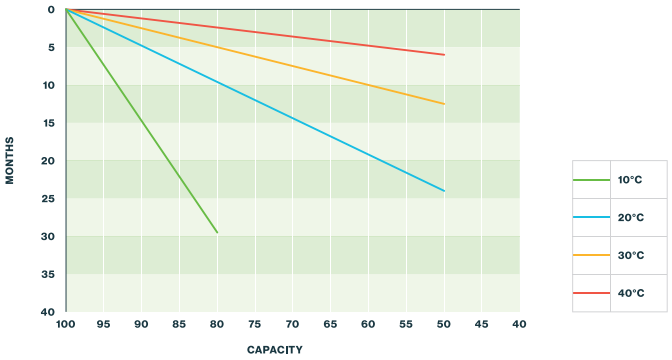
Compliant with IEC 60254-1 & IEC 60254-2

Charging profile

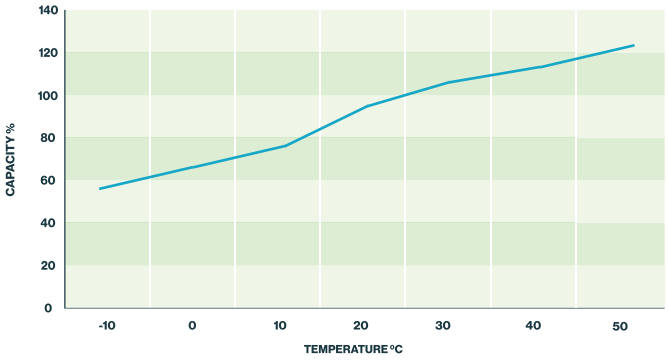
IU Charging
I = min. 12% C_5 max. 30% C_5
U = 2.4 V per cell

IUI Charging
I_1 = min. 12% C_5 max. 40% C_5
U = 2.35 V per cell
I_2 = 1.5 % C_5 for max. 4 hours

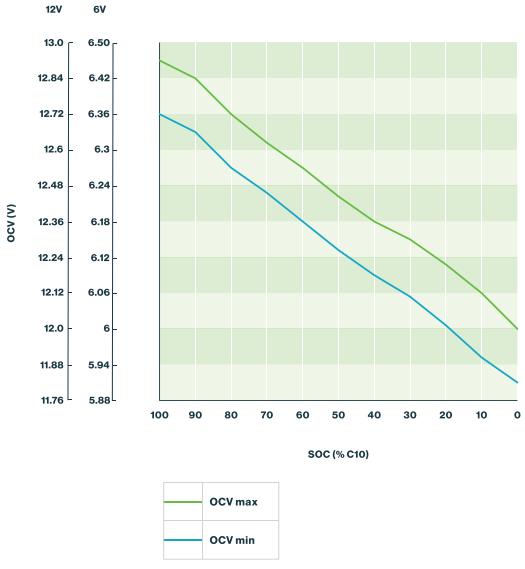
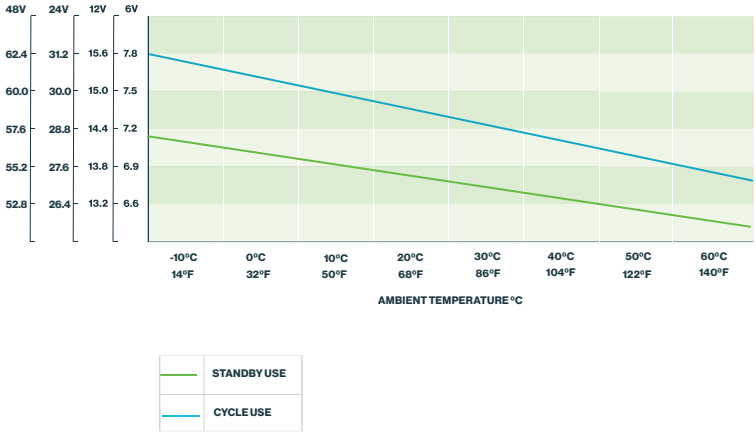
Self discharge at different temperatures



Capacity vs. temperature



Storage: Determine the state of charge



Relation between charging, voltage and temperature