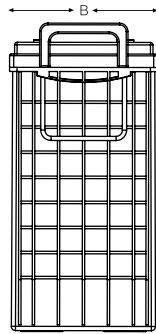
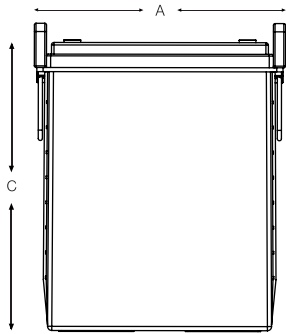
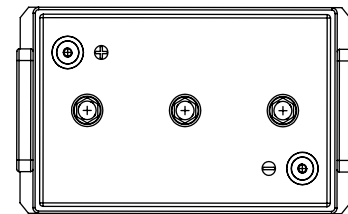


EQ-305

Carbon Nano Gel Bloc



Left - positive Right - negative



Electrical Specifications

Voltage	6V
M.R.C. 25 Amps	595
80% DOD Voltage Cutoff	5.6V
Low Voltage Cutoff	5.4V
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)

Amp Hours (AH)			
5 HR	10 HR	20 HR	100 HR
245	263	280	305

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

Mechanical Specifications

Industry Reference	305	
Length (A)	11.9 in	302 mm
Width (B)	7.0 in	178 mm
Height (C)	13.6 in	346 mm
Weight	99 lbs	45 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
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:

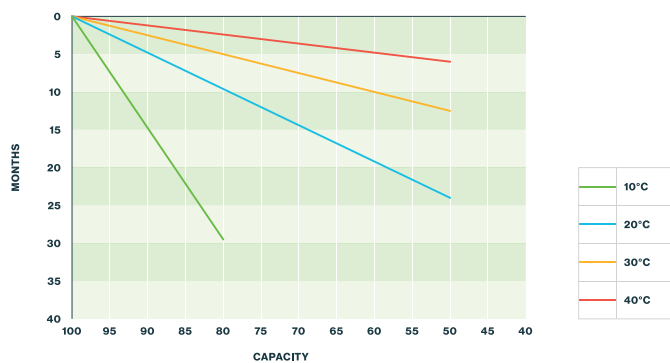
- Electric vehicles, including cleaning machines
- Wheelchairs
- Electric Working Platforms
- UPS Systems
- Traffic Systems
- Telecommunications & Emergency Lighting
- Caravans / Motorhomes RV's & Maritime
- Solar & Renewable Energy & Home Invertor

Charging profile

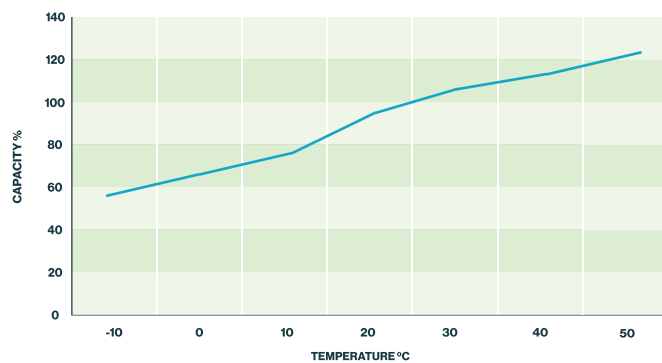
IU Charging $I = \text{min. } 12\% C_5 \text{ max. } 30\% C_5$
 $U = 2.4 \text{ V per cell}$

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

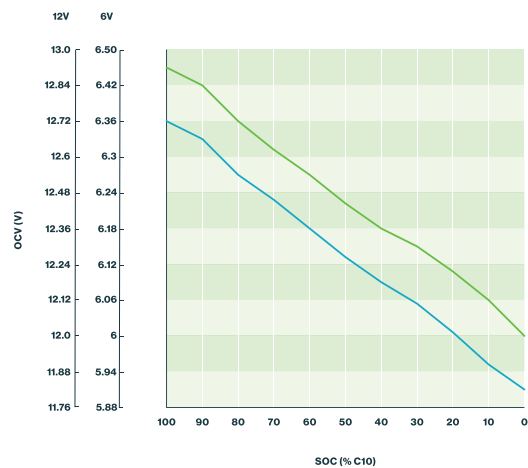
Self discharge at different temperatures



Capacity vs. temperature

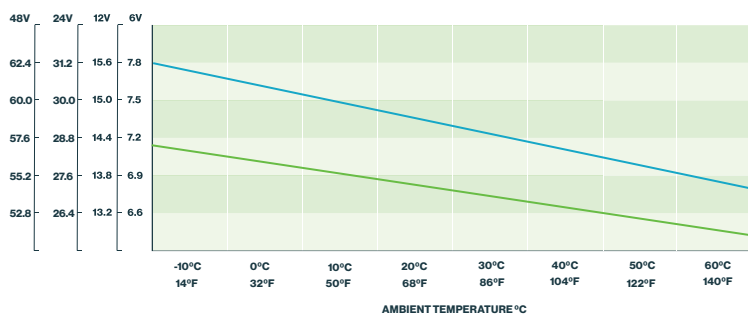


Storage: Determine the state of charge



OCV max
OCV min

Relation between charging, voltage and temperature



STANDBY USE
CYCLE USE