Eternity TECHNOLOGIES

EQ-5SHP
Carbon Nano Gel Bloc

Left - Positive   Right - Negative
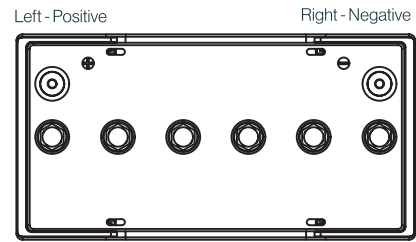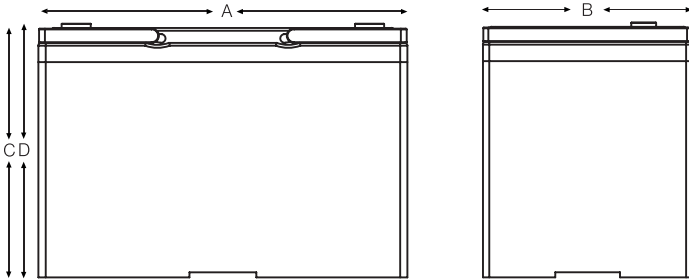
Electrical Specifications

Voltage	12V
M.R.C. 25 Amps	230
80% DOD Voltage Cutoff	11.2V
Low Voltage Cutoff	10.8V
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-5SHP	108	116	123	130

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

Mechanical Specifications

Industry Reference	BCI 12 / 5SHP	
Length (A)	13 in	329 mm
Width (B)	6.7 in	170 mm
Height (C)	10.2 in	258 mm
Weight	93 lbs	42 kgs
Terminal (Opt'l)*	M8	
Cell(s)	6	
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 (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:

Electric vehicles, including cleaning machines

Wheelchairs

Electric Working Platforms

UPS Systems

Traffic Systems

Telecommunications & Emergency Lighting

Caravans / Motorhomes RV's & Maritime
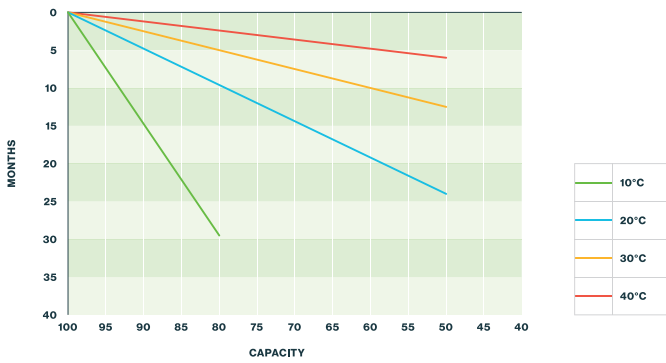
Solar & Renewable Energy & Home Invertor

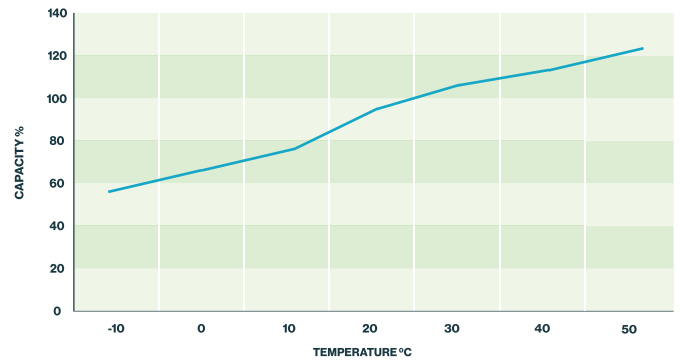**Compliant with** EN60254-1&2 and IEC254-1/2

Charging profile

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

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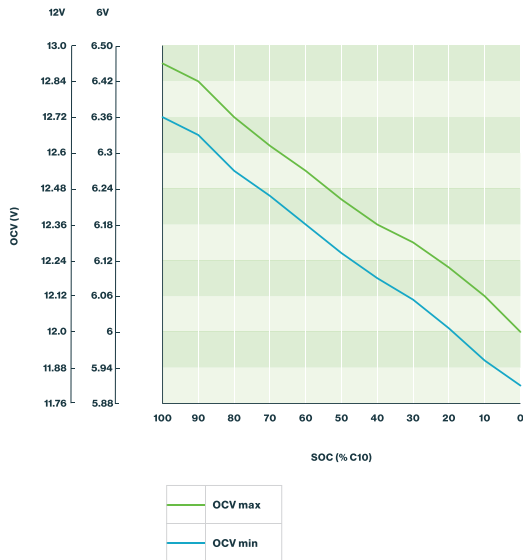
Self discharge at different temperatures

Capacity vs. temperature

Storage: Determine the state of charge

Relation between charging, voltage and temperature