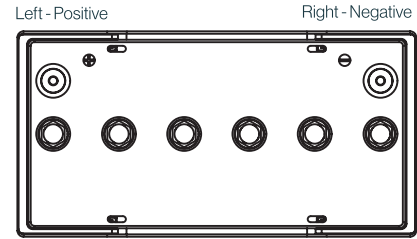
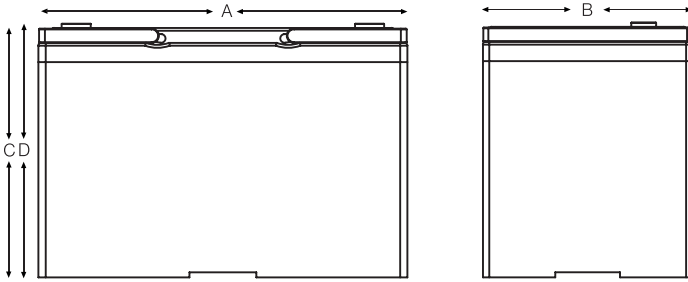


EQ-5SHP

Carbon Nano Gel Bloc



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

ET/DATAQUASAR GEL EQ 5SHP V2 0822

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

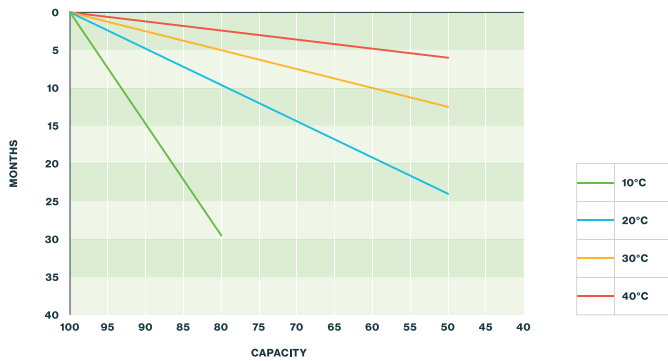
Compliant with EN60254-1&2 and IEC254-1/2

Charging profile

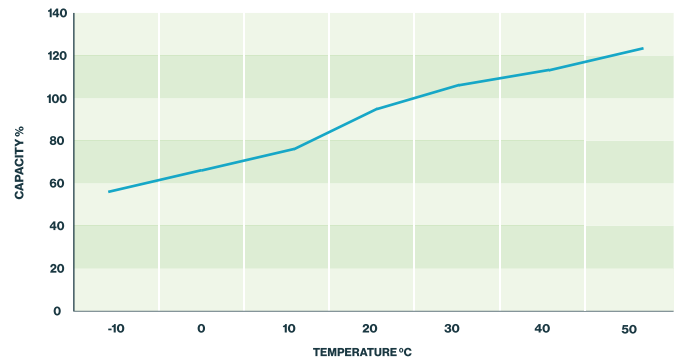
IU Charging I = min. 12% C₅ max. 30% C₅
U = 2.4 V per cell

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

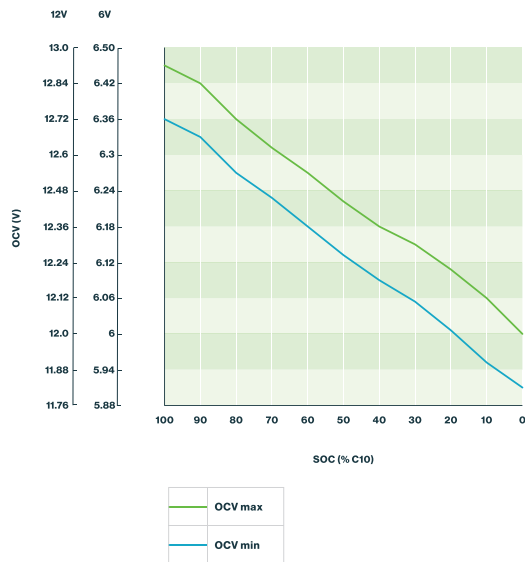
Self discharge at different temperatures



Capacity vs. temperature



Storage: Determine the state of charge



Relation between charging, voltage and temperature

