

# **EQM-Type B** Carbon Nano Gel Battery



#### **Benefits:**

- Cost savings due to increased efficiency in charging
- Reduced Temperature gives longer life
- Long life, high reliability
- Reduces drying out extends life
- Sulphation reduction, less need to top charge
- Can be installed in tight spaces
- Almost Totally Green recycled scrap value
- Reduced premature failure, extended life
- Suitable for extreme temperature variants

#### **Electrical Specifications**

Voltage	12V
M.R.C. 25 Amps	325
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	C5	C10	C20	C100	
(100%) / VPC	1.70	1.75	1.75	1.80	
Ref Temp	25°C	25°C	25°C	25°C	
EQM-TYPE B	132	150	159	170	

#### **Mechanical Specifications**

Industry Reference	DIN B / BCI4D (Reverse Polarity)		
Length (A)	20.2 in	513 mm	
Width (B)	8.9 in	223 mm	
Height (C)	7.7 in	196 mm	
Weight	119 lbs	54 kgs	
0°C MCA (EN)	1000		
Terminal (Opt'l)*	DUAL		
Cell(s)	6		
Electrolyte	Gel		
Terminal Torque Nm	n/a		

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



#### **Features:**

Carbon Nano Tube - Ultra energy efficiency due to low resistance

Solid Silica Gel Electrolyte (25% more Electrolyte)

Up to 2 x Faster charging – allows for opportunity charging

PSOC operation - between 40% - 90% SOC

High Specification Materials

Maintenance Free-no topping up required

98% Manufactured Material is recycled

Robust Construction - Vibration resistant

Cycle Life - up to 1500 cycles (EQM) & up to 2000 cycles (LFT)

Design life 12-15 years

High Starting Power

#### **Applications:**

Ocean & offshore:

River

Inland waterways

Electric Propulsion

RV

\*\* CAUTION: Depths of

discharge, operating voltages and currents, when designing

systems for use at maximum temperatures, will vary.

Motorhome & Caravan

All off grid applications:

Utility vehicle

Vehicle conversions

Ambulances & blue light

Solar & renewable energy storage systems

CCTV

Lighting

Traffic Management

Mobility



## **Charging profile**

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

Select either AGM or GEL setting (GEL setting does increase lifespan)

#### Self discharge at different temperatures



### Capacity vs. temperature

10°C

20°C

30°C

40°C





#### Storage: Determine the state of charge

Relation between charging, voltage and temperature



CYCLE USE