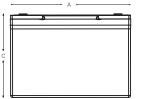
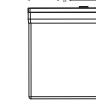
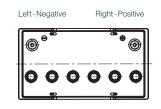


EQM-27 Carbon Nano Gel Battery







** CAUTION: Depths of discharge, operating voltages

and currents, when designing

systems for use at maximum temperatures, will vary.

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

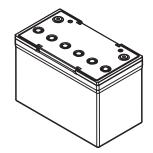
Voltage	12V
M.R.C. 25 Amps	165
80% DOD Voltage Cutoff	11.2V
Low Voltage Cutoff	10.8V
Self Discharge	Less than 3% per month (20°C/68°F)
Charge Temperature	Min: -10°C (14°F) / Max: 50°C (122°F)
Discharge Temperature**	Min: -40°C (-40°F) / Max: 50°C (122°F)
Storage	Min: -20°C (-4°F) / Max: 60°C (140°F)

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-27	78	81	87	92	

Mechanical Specifications

Industry Reference	BCI27		
Length (A)	12.1 in	307 mm	
Width (B)	6.6 in	168 mm	
Height (C)	8.3 in	211 mm	
Weight	70.5 lbs	32 kgs	
0°C MCA (EN)	430		
Terminal (Opt'l)	DUAL		
Cell(s)	6		
Electrolyte	Gel		
Terminal Torque Nm	8		

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

Motorhome & Caravan

All off grid applications:

Utility vehicle

Vehicle conversions

Ambulances & blue light

Solar & renewable energy storage systems

CCTV

Lighting

Traffic Management

Mobility

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

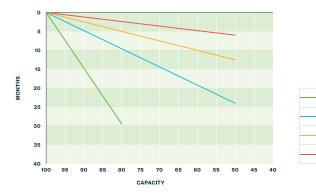


Charging profile

IU Charging	I = min. 12% C ₅ max. 30% C ₅
	U = 2.4 V per cell

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

Self discharge at different temperatures



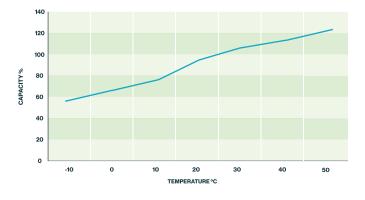
Capacity vs. temperature

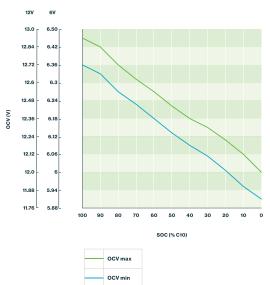
10°C

20°C

30°C

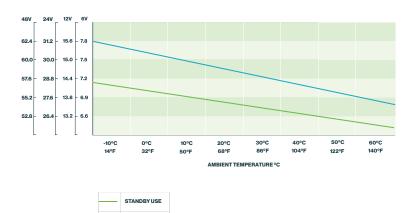
40°C





Storage: Determine the state of charge

Relation between charging, voltage and temperature



CYCLE USE