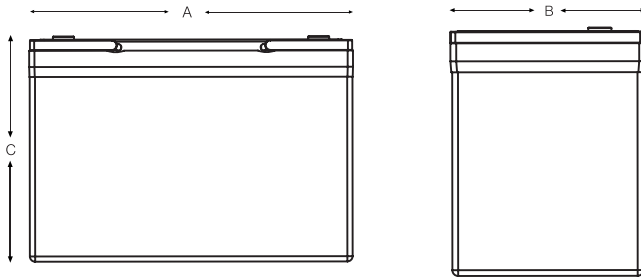
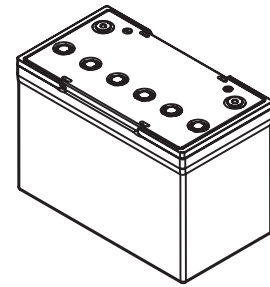
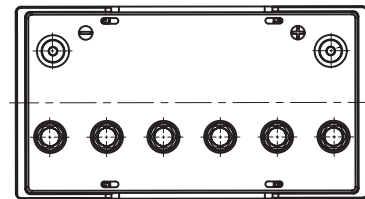


EQ-27

Carbon Nano Gel Bloc



Left - Negative Right - Positive



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 (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-27 | 78 | 81 | 87 | 92 |

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

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 |
| 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-27 V3 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

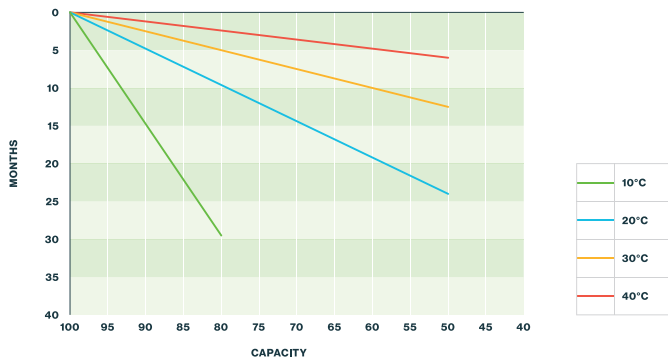
Compliant with EN60254-1&2 and IEC254-1/2

Charging profile

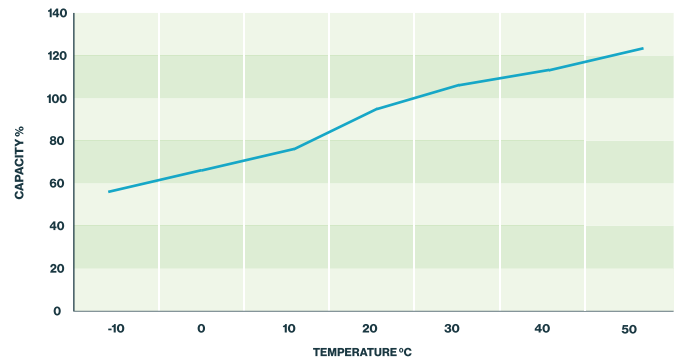
IU Charging I = min. 12% C₅ max. 30% C₅
U = 2.4 V per cell

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

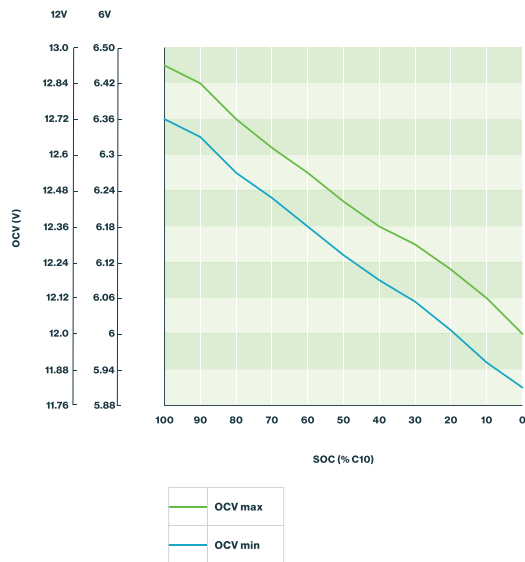
Self discharge at different temperatures



Capacity vs. temperature



Storage: Determine the state of charge



Relation between charging, voltage and temperature

