

TECHNICAL DATA SHEET

DGY12-85D



Applications



CYCLIC



STATIONARY



SOLAR



MARINE

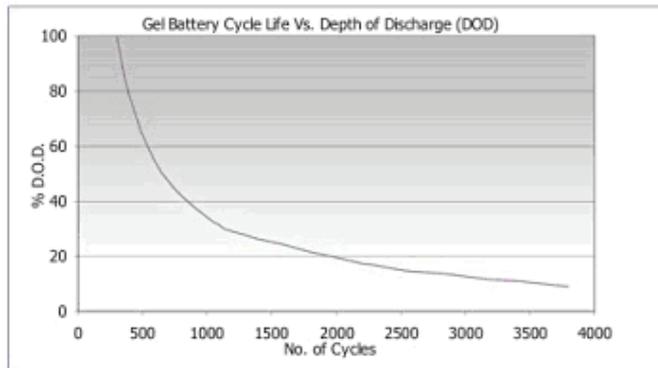
Construction / composition of accumulator

- six cells are composed of the group of positive pasted plates and of the group of negative pasted plates and battery separators GLASS MAT
- the box and cover are made of polipropylen; the cover has three openings closed with plug with valve regulation of internal pressure (VRLA)
- electrolyte is bounded in the form of a gel by high dispersion pyrolytic silica

Technic characteristics of accumulator

- Quantity of cells:** 6
- Nominal voltage:** 12V
- Capacity (2h):** 67 Ah
- Capacity (5h):** 85 Ah
- Capacity (20h):** 100 Ah
- Weight of wet accumulator :** 34 kg
- Quantity of cycles:** 700
- Current of initial charge:** 14 A
- Dimensions:** 345 x 171 x 235h

Charging



| | |
|-----------------------|---|
| Nominal voltage | 6 & 12 volts |
| Design life | 12 Years @ 20°C |
| Operating temperature | -10 °C to 50°C |
| Grid alloy | Calcium / Tin lead alloy |
| Plates | Flat pasted |
| Separator | Microporous Duroplastic |
| Active Material | Very high purity lead |
| Case and cover | ABS (VO on request) |
| Charge voltage | Float 2.27 - 2.30 VPC @ 20°C Cycling 2.40 @ 20°C Max. 2.4 VPC Max ripple 3.5% |
| Electrolyte | Charging V Sulphuric acid analytical grade purity |

CHARGING CHARACTERISTICS

Floating - The optimum float voltage for a battery is temperature dependant, at 15 - 24°C the recommended value is 2.27 - 2.30V. It is recommended that battery installation sites are temperature controlled, however float voltage can be increased or decreased to compensate for temperature variations. Adjustment is calculated at +/- 3 mV per degree C.

| Operating Temperature | Recommended Applied Float Voltage VPC |
|-----------------------|---------------------------------------|
| 0-9 | 2.33-2.35 |
| 10-14 | 2.30-2.33 |
| 15-19 | 2.27-2.30 |
| 20-24 | 2.27-2.30 |
| 25-29 | 2.25-2.27 |
| 30-34 | 2.23-2.25 |
| 35-40 | 2.21-2.23 |

The most suitable charging method for battery life and performance is the constant voltage method with a limited initial current, usually limited to a maximum of $C_{20}/4$. For cyclic use we specify a short constant current phase at the end of normal charging, consult us for further details.

Charging - To obtain maximum cycle life from your battery, it is important that a suitable charging profile is used. For information about our range of chargers and our recommended charging profile, please contact us.