

# ENDUROGEL 12V300Ah

## 12EG300

- Valen ENDUROGEL range features a rechargeable, deep cycle, Valve Regulated Lead Acid (VRLA) battery.
- The Valen ENDUROGEL battery range outshines the standard Gel battery by incorporating both advanced lead plates and the Catalyst.
- High purity virgin lead plates with 1.6% tin extend the longevity of the Valen ENDUROGEL battery.
- Maintenance-Free Design
- Thixotropic Gelled electrolyte, genuine Gel separators, quality lead plate, and a Catalyst Life Extender allow the Valen ENDUROGEL range to offer a 12-year design life and is ideal for use in mission-critical cyclic applications.
- FAA and IATA Approved and is safe for air transportation

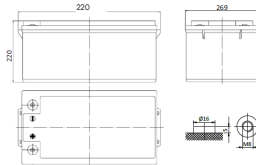




# 12EG300

## BATTERY SPECIFICATIONS

### Dimensions



### Specifications

<b>Nominals Voltage</b>	12V
<b>Number of Cells</b>	6
<b>Design life</b>	12 years
<b>Normal Capacity 25°</b>	
<b>100 Hr rate (10.5V)</b>	300Ah
<b>20 Hr rate (10.5V)</b>	250Ah
<b>10 Hr rate (10.5V)</b>	231Ah
<b>5 Hr rate (10.5V)</b>	194Ah
<b>Dimensions</b>	521(L) x 269(W) x 220(H)mm
<b>Weight</b>	80.5kg
<b>Terminal</b>	Insert - M8
<b>Torque Setting</b>	10.3 Nm
<b>Charge voltage</b>	Cycle: 14.1-14.4V at 25°C Float: 13.5-13.8V at 25°C
<b>Internal resistance</b>	3mΩ 25°C - Fully charged Battery
<b>Electrolyte</b>	Thixotropic Gel – Sulphuric acid
<b>Operating Temperature</b>	-20°C to +60°C

#### Discharge Constant Current (Amperes at 25°C)

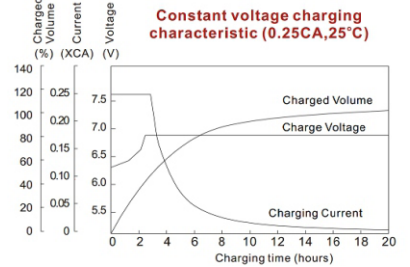
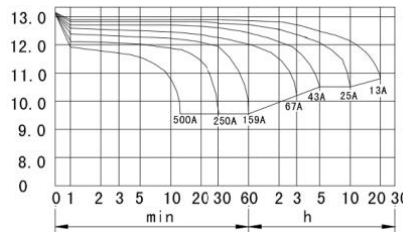
End Point Volts / Cell	15 min	30 min	1 hour	3 hour	5 hour	10 hour	20 hour
1.75V	308	216	138	58.8	38.8	23.1	12.5

#### Discharge Constant Power (Watts at 25°C)

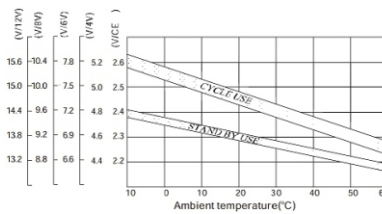
End Point Volts / Cell	15 min	30 min	1 hour	3 hour	5 hour	10 hour	20 hour
1.75V	3420	2463	1578	695	460	278	151

(However it is recommended that the batteries be operated in the temperature range of 20 to 30°C to obtain full life and optimum performance.)

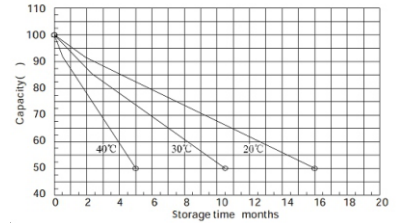
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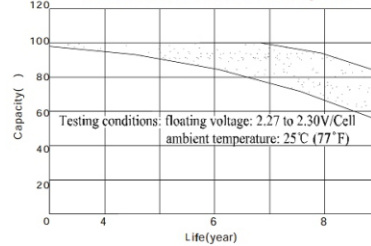
#### Relationship between charging voltage and temperature



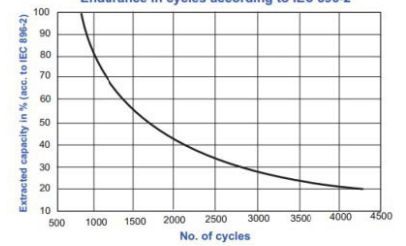
#### Self-discharge characteristic



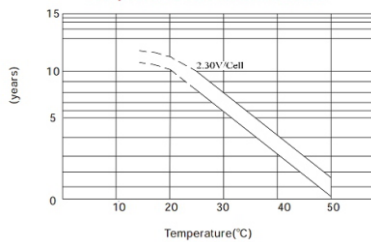
#### Life characteristics of Standby use



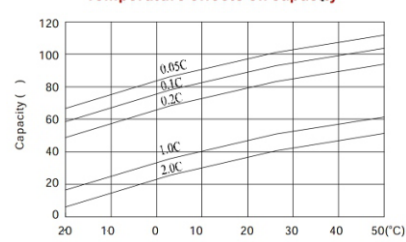
#### Endurance in cycles according to IEC 896-2



#### Temperature effects on float life



#### Temperature effects on capacity



Specifications subject to change without notice.

\*Although the Catalyst extends battery life at high temperatures it is not expected to change the momentary delivery of the current. The benefit of having the Catalyst in batteries will be shown over time.