

ENDUROGEL 12V100Ah

12EGFT100

- 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.
- Specialised Valen Front Terminal Design, includes terminal protection cover, insulated intercell links, ventilation holes for optional external venting, as well as being designed for easy installation into 19-inch racks.
- 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 15-year design life and is ideal for use in mission-critical cyclic applications.
- FAA and IATA Approved and is safe for air transportation

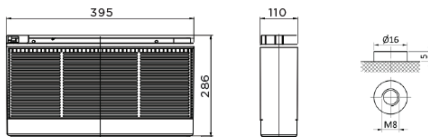




12EGFT100

BATTERY SPECIFICATIONS

Dimensions



Specifications

Nominals Voltage	12V
Number of Cells	6
Design life	15 years
Normal Capacity 25°	
100 Hr rate (10.5V)	
20 Hr rate (10.5V)	110Ah
10 Hr rate (10.5V)	105Ah
5 Hr rate (10.5V)	92Ah
Dimensions	395(L) x 110(W) x 286(H)mm
Weight	34kg
Terminal	M8
Torque Setting	10.3 Nm
Charge voltage	Cycle: 14.1 - 14.4V at 25°C Float: 13.5 - 13.8V at 25°C
Internal resistance	6.5mΩ 25°C - Fully charged Battery
Electrolyte	Thixotropic Gel - Sulphuric acid
Operating Temperature	-20°C to +60°C

Discharge Constant Current (Amperes at 25°C)

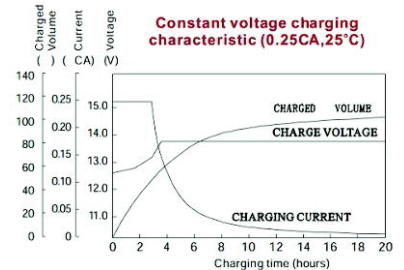
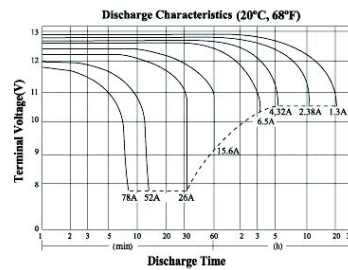
End Point Volts / Cell	15 min	30 min	1 hour	3 hour	5 hour	10 hour	20 hour
1.75V	139	86.6	54.6	23.5	16.6	9.52	5.0

Discharge Constant Power (Watts at 25°C)

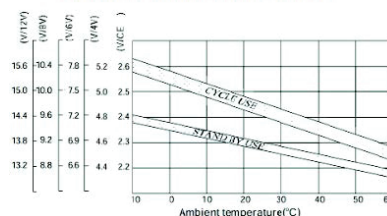
End Point Volts / Cell	15 min	30 min	1 hour	3 hour	5 hour	10 hour	20 hour
1.75V	1368	995	625	277	184	111	60.3

(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.)

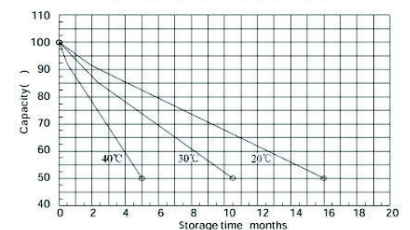
ENDUROGEL 12V100Ah



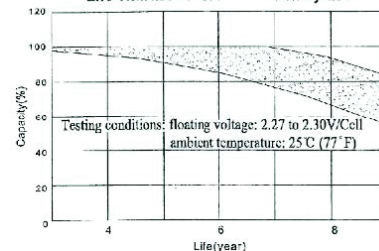
Relationship between charging voltage and temperature



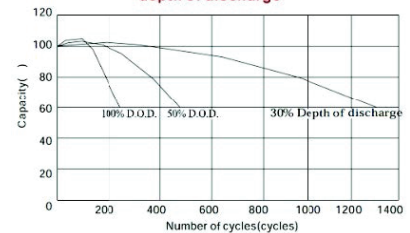
Self-discharge characteristic



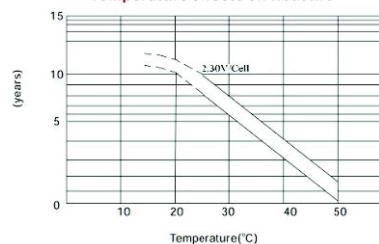
Life characteristics of Standby use



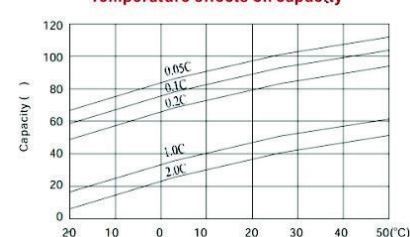
Cycle service life in relation to depth of discharge



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.