

# ENDUROGEL 12V220Ah

## 12EG220

- 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

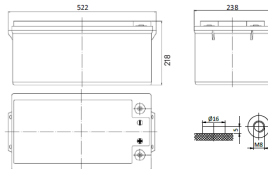


# 12EG220

## BATTERY SPECIFICATIONS



### Dimensions



### Specifications

Nominals Voltage	12V
Number of Cells	6
Design life	12 years
Normal Capacity 25°	
100 Hr rate (10.5V)	220Ah
20 Hr rate (10.5V)	200Ah
10 Hr rate (10.5V)	185Ah
5 Hr rate (10.5V)	155Ah
Dimensions	522(L) x 238(W) x 218(H)mm
Weight	65kg
Terminal	Insert - 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	3.5mΩ 25°C - Fully charged Battery
Electrolyte	Thixotropic Gel - Sulphuric acid
Operating Temperature	-20°C to +60°C

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

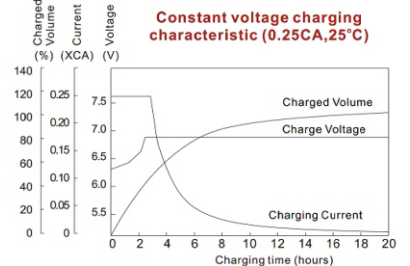
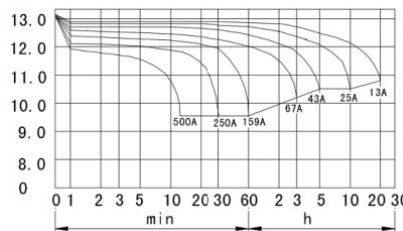
End Point Volts / Cell	15 min	30 min	1 hour	3 hour	5 hour	10 hour	20 hour
1.75V	246	173	110	47	31	18.5	10

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

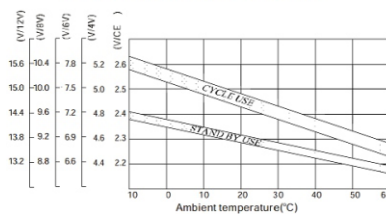
End Point Volts / Cell	15 min	30 min	1 hour	3 hour	5 hour	10 hour	20 hour
1.75V	2736	1970	1262	556	368	222	121

(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.)

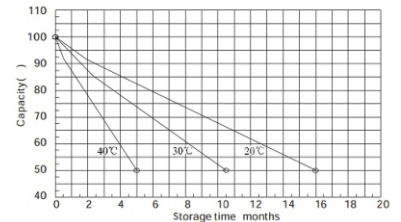
## ENDUROGEL 12V220Ah



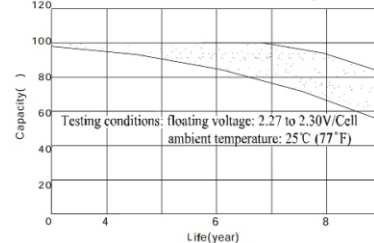
Relationship between charging voltage and temperature



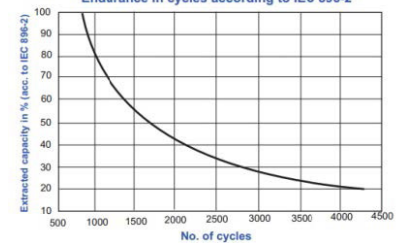
Self-discharge characteristic



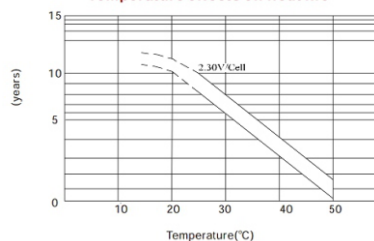
Life characteristics of Standby use



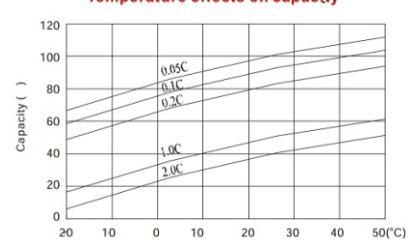
Endurance in cycles according to IEC 896-2



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.



QUALITY CERTIFIED  
ISO 9001:2015



ENVIRONMENT CERTIFIED  
ISO 14001:2015



SAFETY CERTIFIED  
ISO 45001:2018

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