

Solar Gel Range VRLA





ES150-12G

EVEREXCEED GEL TECHNOLOGY EXCELS IN CYCLING APPLICATIONS

GELLED VALVE REGULATED LEAD ACID BATTERY (GVR) FOR CYCLING APPLICATIONS

12V 153AH @ 20 HR RATE to 1.75VPC 12V 169AH @ 100 HR RATE to 1.75VPC 12V 134AH @ 10 HR RATE to 1.80VPC



Innovative Features

Valve regulated lead acid (VRLA);

- Sulfuric acid thixotropic gel, electrolyte in solid gel form will not stratify - no equalization charge required, Gel powder from Europe leading supplier to ensure the unique performance of gel battery;
- Microporous rubber and corrugated PVC SiO₂ separator, the special design increase the high porosity and anti-corrosion and decrease the internal resistance;
- Virgin Pure Lead Tin and thick positive plate technology design for maximum service float life - 12 years design life @25°C(77°F);
- Proprietary Fixed Orifice Plate Pasting technology applying active materials on both sides of the grid for consistent cell-to-cell performance, higher capacity and uniform grid protection.
- Thickness positive plate plus optimized plate alloy to anti-corrosion;
- Inique performance against high temperature;
- Spill-proof and leak-proof;
- Derates at a low internal pressure;
- EVery low gassing due to internal gas recombination;
- Flame-arresting one-way pressure relief vent for safety and long life;
- E Rated non-spillable by ICAO, IATA and DOT.

	12 VOLTS - 153 AMPERE HOUR @ 20 HOUR RATE												
	AH Capacity to 1.75VPC @ 25°C (77°F)												
End Point Volts/Cell	1.5hr	2hr	3hr	4hr	5hr	8hr	10hr	12hr	20hr	24hr	48hr	72hr	100hr
1.75	89.6	101	109	114	118	133	138	141	153	155	160	164	169

THE MOST RELIABLE BATTERY FOR RENEWABLE ENERGY









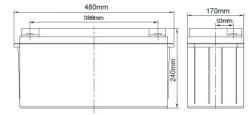


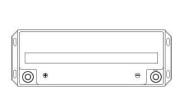


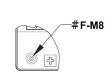


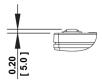
www.everexceed.com











Length: 480mm

Width: 170mm Height: 240mm

Electrical Specifications										
Cells Per Unit	Voltage Per Unit Weight		Electrolyte CCA @ -18°C (0°F)		Short Circuit Current	Ohms Imped 60 Hz(Ω)				
6	12.84	99.2lbs 45.0kg	SG = 1.280	970 Amps	4200 Amps	0.0029				

Capacity	153 Ah @ 20 hr. rate to 1.75 volts per cell @ 25°C (77°F). 169 Ah @ 100 hr. rate to 1.75 volts per cell @ 25°C (77°F). 134 Ah @ 10 hr. rate to 1.80 volts per cell @ 25°C (77°F).
Applicable Operating Temperature Range	-40°C (-40°F) to +70°C (+158°F).
Ideal Operating Temperature Range	+20°C (+68°F) to +35°C (+95°F).
Floating Charging Voltage	13.5 to 13.8 VDC/unit Average at 25°C (77°F).
Recommended Maximum Charging Current Limit	0.25C20 amperes (38.3 amperes @ 100% depth of discharge) @ 20 hr. rate to 1.75VPC.
Equalization and Cycle Service Charging Voltage	14.1 to 14.4 VDC/unit Average at 25°C (77°F).
Maximum AC Ripple (Charger)	0.5% RMS or 1.5% P-P of float charge voltage recommended for best results. Maximum voltage allowed = 1.4% RMS (4% P-P). Maximum current allowed = 7.65 amperes RMS (C/20) to 1.75VPC.
Self Discharge	EverExceed Solar Gel Range batteries may be stored for up to 24 months at 20°C (68°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Accessories	Inter unit connectors racks and cabinet systems are available.
Terminal: Inserted	Threaded copper alloy insert terminal.
Terminal Hardware Initial Torque: Inserted Terminal	11 N-m

	Constant Power Discharging Ratings - Watts Per Cell @ 25°C (77°F)												
End Point Volts/Cell	1.5hr	2hr	3hr	4hr	5hr	8hr	10hr	12hr	20hr	24hr			
1.85	106	89.4	65.0	51.6	42.9	30.2	25.0	21.3	14.0	12.0			
1.80	111	94.1	68.5	54.4	45.3	31.8	26.4	22.6	14.8	12.5			
1.75	113	96.5	70.0	55.4	46.2	32.4	27.0	23.1	15.1	12.9			

Constant Current Discharging Ratings - Amperes Per Cell @ 25°C (77°F)													
End Point Volts/Cell	1.5hr	2hr	3hr	4hr	5hr	8hr	10hr	12hr	20hr	24hr	48hr	72hr	100hr
1.85	54.9	46.2	33.4	26.3	21.8	15.2	12.5	10.6	6.97	5.99	3.13	2.16	1.61
1.80	58.2	49.1	35.4	27.8	23.2	16.1	13.4	11.4	7.44	6.28	3.24	2.23	1.66
1.75	59.7	50.3	36.3	28.6	23.7	16.5	13.8	11.7	7.65	6.47	3.33	2.28	1.69

Note: Batteries to be mounted with 0.5 in (1.25 cm) spacing minimum and free air ventilation. Specifications subject to change without notification.

