HIGH
PERFORMANCE

ISO 9001 14001 C E IEC Pb

EverExceed® Patented Robust AGM Technology

ST-6150

VALVE REGULATED

LEAD ACID BATTERY

FOR TELECOM / ELECTRIC

UTILITY APPLICATIONS

6V 150 AH @ 10 HR to 1.80VPC

**6V 169 AH @ 20 HR to 1.75VPC**

LONG DURATION

Innovative Features

◆ Thick positive plate design for maximum service float life 12 years design life @ 20°C(68°F).

◆ Valve regulated lead acid battery (VRLA).

◆ High-Compression Absorbed Glass Mat technology (AGM) for greater than 99% recombination efficiency.

◆ 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.

◆ Operates at a low internal pressure.

◆ Heavy duty insert copper alloy terminals for ease of assembly, reduced maintenance and increased safety.

◆ Advanced lead tin calcium alloy, reduces grid corrosion and promotes long battery life.

◆ Over-sized, through the partition inter-cell welds provide low resistance connections, with minimal power loss.

◆ Flame arresting, low pressure safety release venting system for individual cells, recognized per U.L. 924.

◆ Multicell design for ease of installation and maintenance

◆ Horizontal or vertical operation.

◆ **Standard:**
Reinforced ABS (UL 94HB) container and cover
Optional:
Flame-retardant reinforced ABS container and cover compliant with U.L.94 V-0 with an Oxygen limiting Index of greater than 28%.

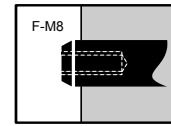| 6 VOLTS - 150 AMPERE HOUR @ 10 HOUR RATE										
AH Capacity to 1.80VPC @ 68°F (20°C)										
End Point Volts/Cell	60min	1.5hr	2hr	3hr	4hr	5hr	8hr	10hr	12hr	20hr
1.80	96.4	108	114	122	128	133	143	150	153	165

For Telecom / Electric Utility Applications
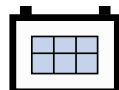
VRLA

Standard Range VRLA

EverExceed ®
power your applications

Length

Standard AGM Range

Width

Height

F-M8
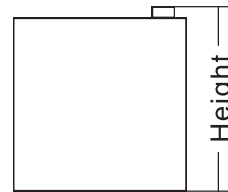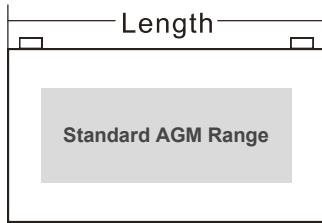
Length: 260mm

Width: 180mm

Height: 252mm

Electrical Specifications						
Cells Per Unit	Voltage Per Unit	Weight	Electrolyte	Maximum Discharge Current@5s	Short Circuit Current	Internal Resistance (mΩ)
3	6.42	52.8lbs 24.0kg	SG = 1.300	1500 Amps	4500 Amps	3.0

Capacity	169 Ah @ 20 hr. rate to 1.75 volts per cell @ 68°F (20°C). 150 Ah @ 10 hr. rate to 1.80 volts per cell @ 68°F (20°C).
Applicable Operating Temperature Range	-40°F (-40°C) to +158°F (70°C).
Ideal Operating Temperature Range	+68°F (+20°C) to +82.4°F (28°C).
Floating Charging Voltage	6.75 to 6.90 VDC/unit Average at 68°F~77°F (20°C~25°C).
Recommended Maximum Charging Current Limit	37.5 Amperes（0.25C10 Amperes）
Equalization and Cycle Service Charging Voltage	7.05 to 7.20 VDC/unit Average at 68°F~77°F (20°C~25°C).
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 = 0.75 amperes RMS (C/10).
Self Discharge	EverExceed Standard Range batteries may be stored for up to 12 months at 68°F~77°F (20°C~25°C) 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 @ 20°C (68°F)												
End Point Volts/Cell	15min	30min	60min	1.5hr	2hr	3hr	4hr	5hr	8hr	10hr	12hr	20hr
1.85	444	285	182	129	104	75.9	60.2	49.9	34.1	28.4	24.2	16.1
1.80	453	291	186	138	110	78.9	62.3	51.8	35.7	29.6	25.3	16.5
1.75	478	302	192	140	112	80.9	63.8	52.8	36.3	30.2	25.8	16.8

Constant Current Discharging Ratings - Amperes Per Cell @ 20°C (68°F)												
End Point Volts/Cell	15min	30min	60min	1.5hr	2hr	3hr	4hr	5hr	8hr	10hr	12hr	20hr
1.85	241.1	154.8	94.5	67.1	53.9	38.7	30.4	25.2	17.0	14.0	11.9	7.70
1.80	246	158	96.4	71.7	57.1	40.8	32.0	26.5	18.0	15.0	12.8	8.25
1.75	264	164	100	72.9	58.8	42.0	32.9	27.2	18.6	15.4	13.1	8.47

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

VRLA