



EverExceed[®] Patented Robust AGM Technology

HIGH PERFORMANCE



ST-12160

VALVE REGULATED
LEAD ACID BATTERY
FOR TELECOM / ELECTRIC
UTILITY APPLICATIONS

12V 160 AH @ 10 HR to 1.80VPC
12V 183 AH @ 20 HR to 1.75VPC

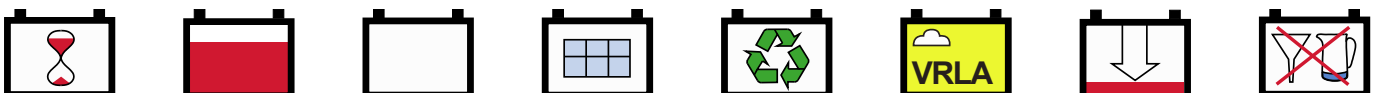
LONG DURATION

Innovative Features

- ☑ Thick positive plate design for maximum service float life 12 years design life @ 20°C(68°F).
- ☑ UL Recognized component.
- ☑ 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%.

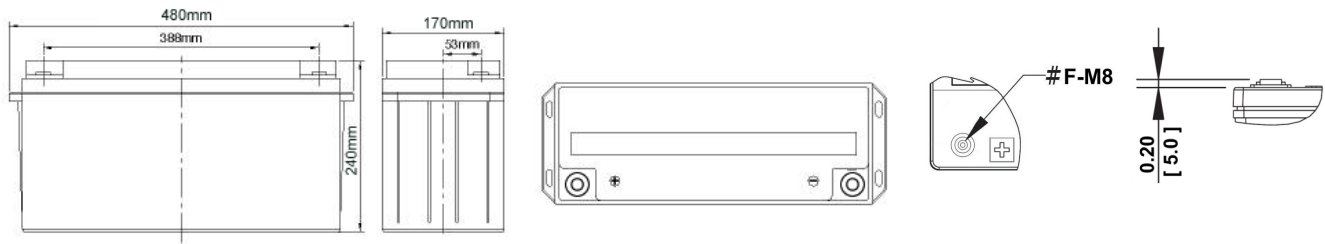
12 VOLTS - 160 AMPERE HOUR @ 10 HOUR RATE										
AH Capacity to 1.80VPC @ 68°F (20°C)										
End Point Volts/Cell	1.5hr	2hr	3hr	4hr	5hr	8hr	10hr	12hr	20hr	24hr
1.80	115	122	131	137	141	154	160	163	178	180

For Telecom / Electric Utility Applications



Standard Range VRLA

EverExceed[®]
power your applications



Length: 480mm Width: 170mm Height: 240mm

Electrical Specifications						
Cells Per Unit	Voltage Per Unit	Weight	Electrolyte	Maximum Discharge Current	Short Circuit Current	Ohms Imped 60 Hz(Ω)
6	12.84	100lbs 45.5kg	SG = 1.300	1016 Amps	4700 Amps	0.0020

Capacity	183 Ah @ 20 hr. rate to 1.75 volts per cell @ 68°F (20°C). 160 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	13.5 to 13.8 VDC/unit Average at 68°F~77°F (20°C~25°C).
Recommended Maximum Charging Current Limit	0.25C20 amperes (45.7 amperes @ 100% depth of discharge) @ 20 hr. rate.
Equalization and Cycle Service Charging Voltage	14.4 to 14.8 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 = 9.14 amperes RMS (C/20).
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	1.5hr	2hr	3hr	4hr	5hr	8hr	10hr	12hr	20hr	24hr
1.85	138	111	81.0	64.3	53.2	36.5	30.4	25.8	17.2	14.4
1.80	147	118	84.2	66.5	55.3	38.1	31.6	27.1	17.7	15.0
1.75	150	120	86.4	68.1	56.5	38.7	32.3	27.5	18.1	15.3

Constant Current Discharging Ratings - Amperes Per Cell @ 20°C (68°F)										
End Point Volts/Cell	1.5hr	2hr	3hr	4hr	5hr	8hr	10hr	12hr	20hr	24hr
1.85	71.6	57.5	41.4	32.5	27.0	18.2	15.0	12.7	8.36	7.06
1.80	76.7	61.0	43.5	34.2	28.2	19.3	16.0	13.6	8.90	7.52
1.75	77.9	62.7	45.0	35.2	29.1	19.9	16.4	14.0	9.14	7.72

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

