EverExceed®
power your applications

EverExceed® Patented Robust AGM Technology

HIGH
PERFORMANCE

ISO 9001 14001 CE IEC Pb

ST-6200

VALVE REGULATED

LEAD ACID BATTERY

FOR TELECOM / ELECTRIC

UTILITY APPLICATIONS

6V 200 AH @ 10 HR to 1.80VPC

6V 226 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%.
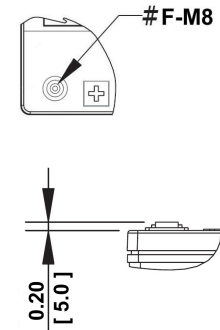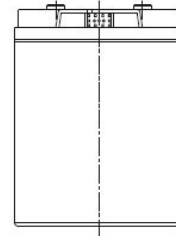
6 VOLTS - 200 AMPERE HOUR @ 10 HOUR RATE										
AH Capacity to 1.80VPC @ 68°F (20°C)										
End Point Volts/Cell	60min	1.5hr	2hr	3hr	4hr	5hr	8hr	10hr	12hr	20hr
1.80	132	143	153	156	170	177	191	200	204	220

For Telecom / Electric Utility Applications
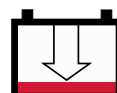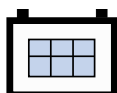
VRLA

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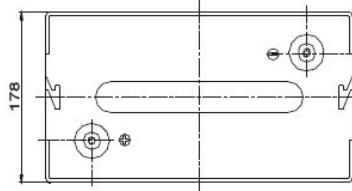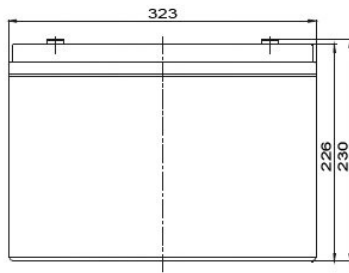
Length: 323mm   Width: 178mm   Height: 230mm

Electrical Specifications						
Cells Per Unit	Voltage Per Unit	Weight	Electrolyte	Maximum Discharge Current@5s	Short Circuit Current	Internal Resistance (mΩ)
3	6.42	66.0lbs 30.0kg	SG = 1.300	2000 Amps	5000 Amps	2.1

Capacity	226 Ah @ 20 hr. rate to 1.75 volts per cell @ 68°F (20°C). 200 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	50.0 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 = 1.00 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	590	379	241	173	141	96.0	79.3	66.0	45.5	38.0	32.8	21.5
1.80	602	387	246	185	146	101	83.0	69.1	47.5	39.3	33.8	22.2
1.75	637	403	254	190	151	103	84.7	70.5	48.3	40.3	34.3	22.6

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	319	204	129	89.8	72.0	49.1	40.3	33.4	23.2	19.0	16.2	10.5
1.80	325	208	132	96.0	76.5	52.3	42.6	35.4	24.0	20.0	17.0	11.0
1.75	352	217	134	98.0	78.2	53.3	43.7	36.1	24.7	20.5	17.4	11.3

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