



EverExceed® Patented Robust AGM Technology

ST-12230

VALVE REGULATED

LEAD ACID BATTERY

FOR TELECOM / ELECTRIC

UTILITY APPLICATIONS

12V 230 AH @ 10 HR to 1.80VPC

12V 264 AH @ 20 HR to 1.75VPC

**LONG
DURATION**

**HIGH
PERFORMANCE**



Innovative Features

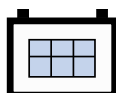
- ☞ Thick positive plate design for maximum service float life 12 years design life @ 20°C(68°F).
- ☞ UL Recognized component.
- ☞ Valve regulated lead acid battery (VRLA).
- ☞ High-Compression Absorbed Glass Mat technology (AGM) for greater than 99% recombination efficiency.
- ☞ Proprietary Fixed Orifice 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 - 230 AMPERE HOUR @ 10 HOUR RATE

AH Capacity to 1.80VPC @ 68°F (20°C)

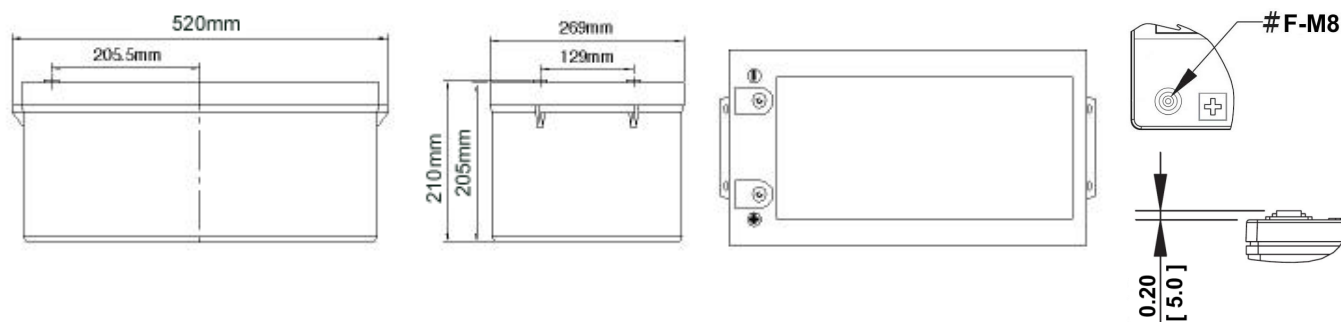
| End Point Volts/Cell | 1.5hr | 2hr | 3hr | 4hr | 5hr | 8hr | 10hr | 12hr | 20hr | 24hr |
|-------------------------|-------|-----|-----|-----|-----|-----|------|------|------|------|
| 1.80 | 167 | 177 | 188 | 196 | 205 | 222 | 230 | 235 | 258 | 259 |

For Telecom / Electric Utility Applications



Standard Range VRLA

EverExceed®
power your applications



Length: 520mm Width: 269mm Height: 210mm

| Electrical Specifications | | | | | | |
|---------------------------|------------------|---------------|-------------|---------------------------|-----------------------|---------------------|
| Cells Per Unit | Voltage Per Unit | Weight | Electrolyte | Maximum Discharge Current | Short Circuit Current | Ohms Imped 60 Hz(Ω) |
| 6 | 12.84 | 155lbs 70.0kg | SG = 1.300 | 1460 Amps | 5900 Amps | 0.0015 |

| | |
|---|---|
| Capacity | 264 Ah @ 20 hr. rate to 1.75 volts per cell @ 68°F (20°C). 230 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 (66.0 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 = 13.2 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 | 199 | 164 | 116 | 91.5 | 76.1 | 52.5 | 43.8 | 37.9 | 24.9 | 20.5 |
| 1.80 | 213 | 168 | 121 | 95.8 | 79.8 | 54.7 | 45.5 | 38.9 | 25.5 | 21.6 |
| 1.75 | 220 | 174 | 123 | 97.7 | 81.4 | 55.6 | 46.4 | 39.6 | 26.1 | 22.0 |

| 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 | 104 | 83.0 | 59.0 | 46.4 | 38.5 | 26.7 | 22.0 | 18.6 | 12.3 | 10.1 |
| 1.80 | 111 | 88.3 | 62.8 | 49.1 | 40.9 | 27.7 | 23.0 | 19.6 | 12.9 | 10.8 |
| 1.75 | 113 | 90.1 | 64.1 | 50.4 | 41.5 | 28.3 | 23.7 | 20.2 | 13.2 | 11.1 |

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

