



EverExceed® Patented Robust AGM Technology

ST-12180
VALVE REGULATED
LEAD ACID BATTERY
FOR TELECOM / ELECTRIC
UTILITY APPLICATIONS
12V 180 AH @ 10 HR to 1.80VPC
12V 202 AH @ 20 HR to 1.75VPC

**LONG
DURATION**

**HIGH
PERFORMANCE**



Innovative Features

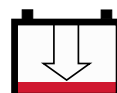
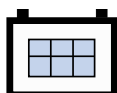
- ◆ Thick positive plate design for maximum service float life 12 years design life @ 20°C(68°F).
- ◆ Valve regulated lead acid battery (VRLA).
- ◆ High-Compression Absorbed Glass Mat technology (AGM) for greater than 99% recombination efficiency.
- ◆ Proprietary Fixed Orifice Plate Pasting technology 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 - 180 AMPERE HOUR @ 10 HOUR RATE

AH Capacity to 1.80VPC @ 68°F (20°C)

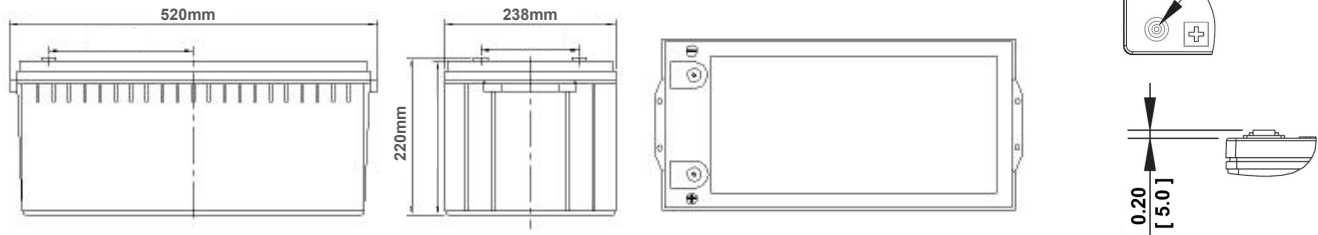
End Point Volts/Cell	60min	1.5hr	2hr	3hr	4hr	5hr	8hr	10hr	12hr	20hr
1.80	118	129	138	140	153	159	172	180	184	198

For Telecom / Electric Utility Applications



Standard Range VRLA

EverExceed®
power your applications



Length: 520mm Width: 238mm Height: 220mm

Electrical Specifications						
Cells Per Unit	Voltage Per Unit	Weight	Electrolyte	Maximum Discharge Current@5s	Short Circuit Current	Internal Resistance (mΩ)
6	12.84	123lbs 56kg	SG = 1.300	1800 Amps	4900 Amps	3.4

Capacity	202 Ah @ 20 hr. rate to 1.75 volts per cell @ 68°F (20°C). 180 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	45.0 Amperes (0.25C10 Amperes)
Equalization and Cycle Service Charging Voltage	14.1 to 14.4 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 = 0.90 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	530	340	217	155	128	86.1	71.2	59.2	40.9	34.2	29.5	19.4
1.80	541	347	221	166	131	90.5	74.6	62.0	42.6	35.5	30.3	20.0
1.75	571	362	229	171	136	92.4	76.0	63.3	43.4	36.2	30.9	20.3

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	287	183	116	80.6	64.5	44.1	36.2	29.9	20.8	17.1	14.5	9.41
1.80	293	187	118	86.2	68.6	46.8	38.3	31.8	21.5	18.0	15.3	9.90
1.75	317	195	119	88.0	70.3	47.9	39.3	32.3	22.1	18.4	15.6	10.1

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

