



EverExceed Patented Robust AGM Technology

**ST-6400**  
VALVE REGULATED  
LEAD ACID BATTERY  
FOR TELECOM / ELECTRIC  
UTILITY APPLICATIONS  
6V 400 AH to 1.80VPC @ 10 HR RATE  
6V 459 AH to 1.75VPC @ 20 HR RATE

**LONG  
DURATION**

**HIGH  
PERFORMANCE**

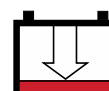
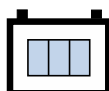


**Features**

- ☑ Thick positive plate design for maximum service float life 10 year design life @ 25°C(77°F).
- ☑ UL Recognized component.
- ☑ Valve regulated lead acid battery (VRLA).
- ☑ High-Compression Absorbed Glass Mat technology (AGM) for greater than 99% recombination efficiency.
- ☑ 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.
- ☑ **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%.
- ☑ 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.

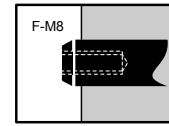
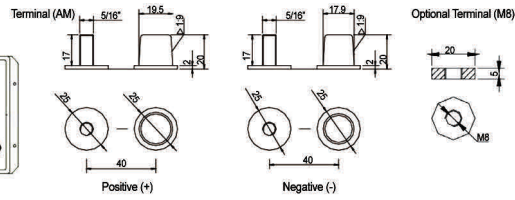
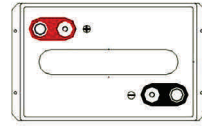
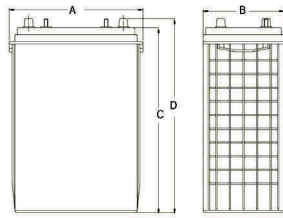
6 VOLTS - 400 AMPERE HOUR @ 10 HOUR RATE										
AH Capacity to 1.80VPC @ 77°F (25°C)										
End Point Volts/Cell	1.5hr	2hr	3hr	4hr	5hr	8hr	10hr	12hr	20hr	24hr
1.80	289	308	325	341	355	384	400	409	443	450

**For Telecom / Electric utility Applications**



# Standard Range VLRA

**EverExceed**<sup>®</sup>  
power your applications



Length[A]: 295mm

Width[B]: 180mm

Height1[C]: 406mm

Height2[D]: 426mm

Electrical Specifications						
Cells Per Unit	Voltage Per Unit	Weight	Electrolyte	CCA at -18°C(0°F)	Short Circuit Current	Ohms Imped 60 Hz(Ω)
3	6.42	121lbs 55kg	SG = 1.3000	2000 Amps	8300 Amps	0.0013

<b>Capacity</b>	459 Ah @ 20 hr. rate to 1.75 volts per cell @ 77°F (25°C). 400 Ah @ 10 hr. rate to 1.80 volts per cell @ 25°C (77°F).
<b>Applicable Operating Temperature Range</b>	-40°F (-40°C) to +140°F (60°C).
<b>Ideal Operating Temperature Range</b>	+68°F (+20°C) to +77°F (25°C).
<b>Floating Charging Voltage</b>	13.5 to 13.8 VDC/unit Average at 77°F (25°C).
<b>Recommended Maximum Charging Current Limit</b>	0.25C20 amperes (115 amperes @ 100% depth of discharge) @ 20 hr. rate.
<b>Equalization and Cycle Service Charging Voltage</b>	14.4 to 14.8 VDC/unit Average at 77°F (25°C).
<b>Maximum AC Ripple (Charger)</b>	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 = 22.95 amperes RMS (C/20).
<b>Self Discharge</b>	EverExceed Standard Range batteries may be stored for up to 6 months at 77°F (25°C) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
<b>Accessories</b>	Inter unit connectors racks and cabinet systems are available.
<b>Terminal: Inserted</b>	Threaded copper alloy insert terminal
<b>Terminal Hardware Initial Torque: Inserted Terminal</b>	11 N-m

Constant Power Discharging Ratings - Watts Per Cell @ 25°C (77°F)										
End Point Volts/Cell	1.5hr	2hr	3hr	4hr	5hr	8hr	10hr	12hr	20hr	24hr
1.85	346	285	202	159	132	91.3	76.2	65.9	43.3	35.7
1.80	370	292	210	166	138	95.1	79.1	67.7	44.4	37.6
1.75	283	303	214	169	141	96.7	80.7	68.9	44.5	38.3

Constant Current Discharging Ratings - Ampere per Cell @ 25°C (77°F)										
End Point Volts/Cell	1.5hr	2hr	3hr	4hr	5hr	8hr	10hr	12hr	20hr	24hr
1.85	181	144	103	80.7	67.0	46.4	38.3	32.4	21.4	17.6
1.80	193	154	109	85.4	71.1	48.2	40.0	34.1	22.5	18.8
1.75	197	157	111	87.7	72.2	49.2	41.2	35.1	23.0	19.3

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

