

# Standard Range VRLA

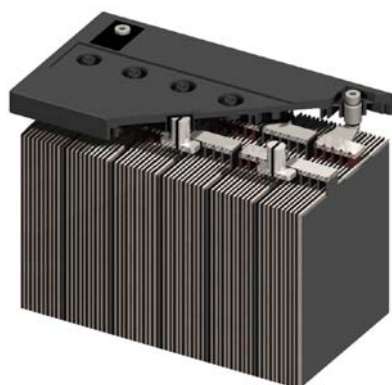
*EverExceed®*  
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*Long Duration and High Performance*


For Telecommunication  
/ Electric Utility Applications



## ST-1255 VALVE REGULATED LEAD ACID BATTERY FOR TELECOM / ELECTRIC UTILITY APPLICATIONS 12V 55 AH @ 10 HR RATE 12V 62.9 AH @ 20 HR RATE



### FEATURES

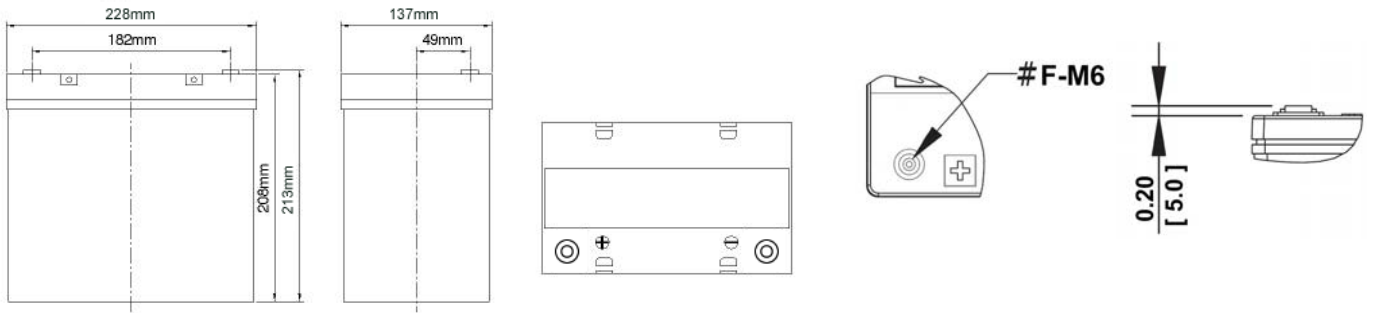
- 📦 Thick positive plate design for maximum service float life - 10 year design life @ 25°C(77°F).
- 📦  UL Recognized component .
- 📦 Valve regulated lead acid battery (VRLA).
- 📦 High-Compression Absorbed Glass Mat technology (AGM) for greater than 99% recombination efficiency.
- 📦 Operates at a low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

### 12 VOLTS - 55 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
1.80	39.3	41.9	44.9	47.1	48.5	52.9	55.0	56.1	62.1

# ST-1255



## ST-1255 – Specifications

Cells Per Unit	Voltage Per Unit	Weight	Electrolyte	CCA at -18°C (0°F)	Short Circuit Current	Ohms Imped 60 Hz (Ω)
6	12.84	38.6 lbs 17.5 kg	Absorbed H <sub>2</sub> SO <sub>4</sub> SG = 1.300	280 Amps	1900 Amps	0.0056

<b>Capacity</b>	62.9 Ah @ 20 hr. rate to 1.75 volts per cell @ 77°F (25°C). 55 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 (15.73 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 = 3.15 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>	9 N-m

## Constant Power Discharge Ratings – Watts Per Cell @ 77°F (25°C)

End Point Volts/Cell	Operating Time to End Point Voltage (in hour)									
	1.5	2	3	4	5	8	10	12	20	24
1.85	47.4	38.3	28.5	22.3	18.6	12.9	11.0	8.73	5.85	4.85
1.80	49.9	40.2	29.9	23.5	19.5	13.6	11.6	9.30	6.09	5.16
1.75	52.1	41.2	30.6	24.3	20.3	13.8	11.9	9.46	6.21	5.27

## Constant Current Discharge Ratings – Amperes @ 77°F (25°C)

End Point Volts/Cell	Operating Time to End Point Voltage (in hour)									
	1.5	2	3	4	5	8	10	12	20	24
1.85	25.4	20.0	14.4	11.1	9.15	6.23	5.14	4.37	2.97	2.51
1.80	26.1	21.0	15.0	11.7	9.71	6.61	5.50	4.66	3.11	2.60
1.75	27.3	21.4	15.5	12.0	9.96	6.79	5.65	4.81	3.14	2.66

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