Standard Range VRLA

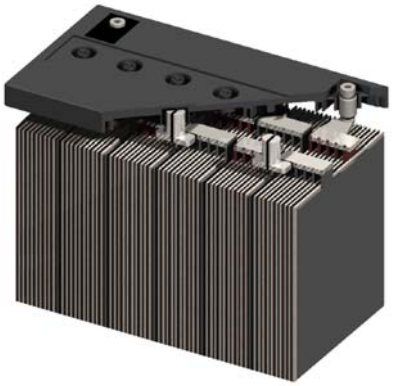
EverExceed®
power your applications

Long Duration and High Performance

For Telecommunication / Electric Utility Applications

ST-1270

VALVE REGULATED LEAD ACID BATTERY FOR TELECOM / ELECTRIC UTILITY APPLICATIONS
12V 70 AH @ 10 HR RATE
12V 79.8 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 - 70 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	51.6	53.3	56.8	59.7	61.5	67.3	70.0	71.2	77.5

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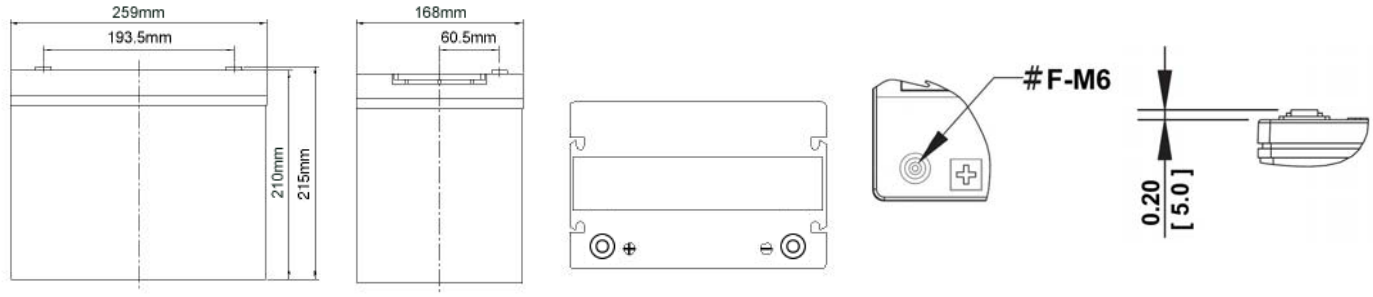

ST-1270 – Specifications

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	47.4 lbs 21.5 kg	Absorbed H_2SO_4 SG = 1.300	410 Amps	2100 Amps	0.0050

Capacity	79.8 Ah @ 20 hr. rate to 1.75 volts per cell @ 77°F (25°C). 70 Ah @ 10 hr. rate to 1.80 volts per cell @ 25°C (77°F).
Applicable Operating Temperature Range	-40°F (-40°C) to +140°F (60°C).
Ideal Operating Temperature Range	+68°F (+20°C) to +77°F (25°C).
Floating Charging Voltage	13.5 to 13.8 VDC/unit Average at 77°F (25°C).
Recommended Maximum Charging Current Limit	0.25C20 amperes (19.95 amperes @ 100% depth of discharge) @ 20 hr. rate.
Equalization and Cycle Service Charging Voltage	14.4 to 14.8 VDC/unit Average at 77°F (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 = 3.99 amperes RMS (C/20).
Self Discharge	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.
Accessories	Inter unit connectors racks and cabinet systems are available.
Terminal: Inserted	Threaded copper alloy insert terminal
Terminal Hardware Initial Torque: Inserted Terminal	9 N-m

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

	Operating Time to End Point Voltage (in hour)									
End Point Volts/Cell	**1.5**	**2**	**3**	**4**	**5**	**8**	**10**	**12**	**20**	**24**
1.85	60.1	48.5	34.8	27.6	22.9	15.7	13.0	11.1	7.27	6.10
1.80	63.6	51.1	36.7	29.1	24.2	16.6	13.8	11.8	7.73	6.56
1.75	66.3	52.4	37.4	29.6	24.6	16.8	14.0	11.9	7.89	6.67

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

	Operating Time to End Point Voltage (in hour)									
End Point Volts/Cell	**1.5**	**2**	**3**	**4**	**5**	**8**	**10**	**12**	**20**	**24**
1.85	33.1	25.1	17.9	14.0	11.6	7.92	6.53	5.56	3.69	3.10
1.80	34.3	26.7	18.9	15.0	12.3	8.41	7.00	5.94	3.87	3.28
1.75	34.7	27.3	19.5	15.3	12.7	8.62	7.18	6.11	3.99	3.38

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