

Standard Range VRLA

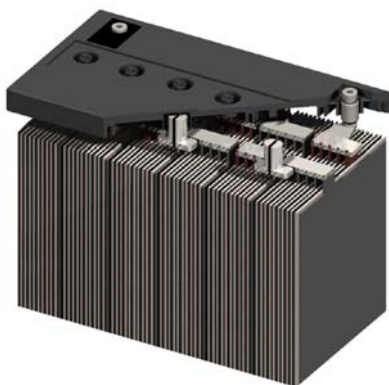
EverExceed®
power your applications

Long Duration and High Performance


For Telecommunication
/ Electric Utility Applications



ST-12100 VALVE REGULATED LEAD ACID BATTERY FOR TELECOM / ELECTRIC UTILITY APPLICATIONS 12V 100 AH @ 10 HR RATE 12V 114 AH @ 20 HR RATE



FEATURES

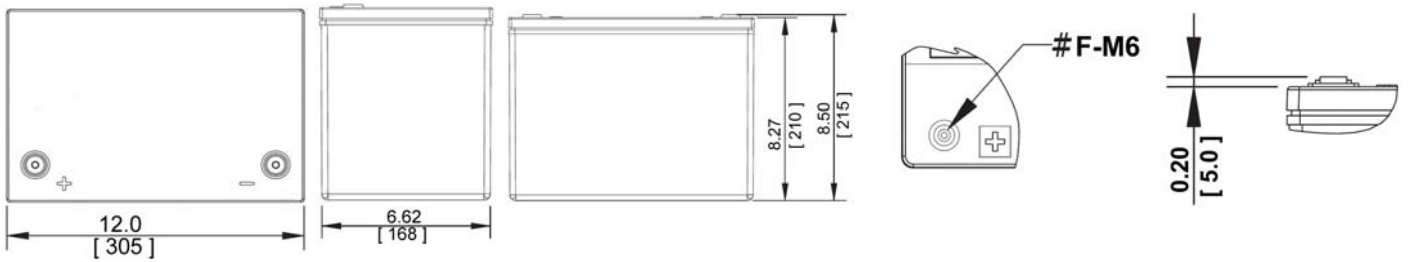
- 📦 Thick positive plate design for maximum service float life - 10 year design life @ 25°C(77°F).
- 📦  UL Recognized component .
- 📦 Valve regulated lead acid battery (VRLA).
- 📦 High-Compression Absorbed Glass Mat technology (AGM) for greater than 99% recombination efficiency.
- 📦 Operates at a low 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 - 100 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	71.7	76.1	81.4	85.2	88.4	95.8	100	102	111

ST-12100



ST-12100 – 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	68.4 lbs 31 kg	Absorbed H ₂ SO ₄ SG = 1.300	580 Amps	2900 Amps	0.0035

Capacity	114 Ah @ 20 hr. rate to 1.75 volts per cell @ 77°F (25°C). 100 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 (28.5 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 = 5.7 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)

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	90.3	69.6	49.9	39.4	32.8	22.7	19.0	16.2	10.6	8.93
1.80	95.0	73.1	52.6	41.5	34.5	23.7	19.8	16.8	11.1	9.36
1.75	97.9	74.9	53.6	42.3	35.2	24.2	20.1	17.3	11.3	9.54

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	44.7	35.9	25.5	20.1	16.6	11.3	9.40	8.17	5.30	4.51
1.80	47.8	38.1	27.1	21.3	17.7	11.9	10.0	8.48	5.54	4.69
1.75	48.5	39.0	27.8	21.8	18.0	12.3	10.3	8.72	5.70	4.84

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