Standard Range VRLA

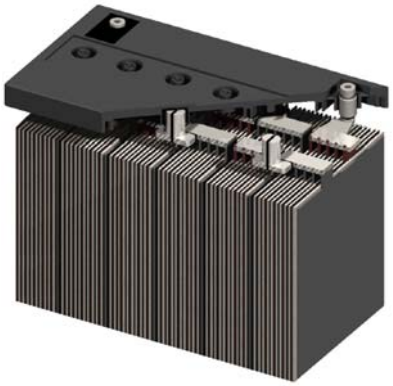
EverExceed®
power your applications

Long Duration and High Performance

For Telecommunication / Electric Utility Applications

ST-12110

VALVE REGULATED LEAD ACID BATTERY FOR TELECOM / ELECTRIC UTILITY APPLICATIONS
12V 110 AH @ 10 HR RATE
12V 126 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 - 110 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	80.3	84.0	89.9	93.8	97.3	106	110	112	122

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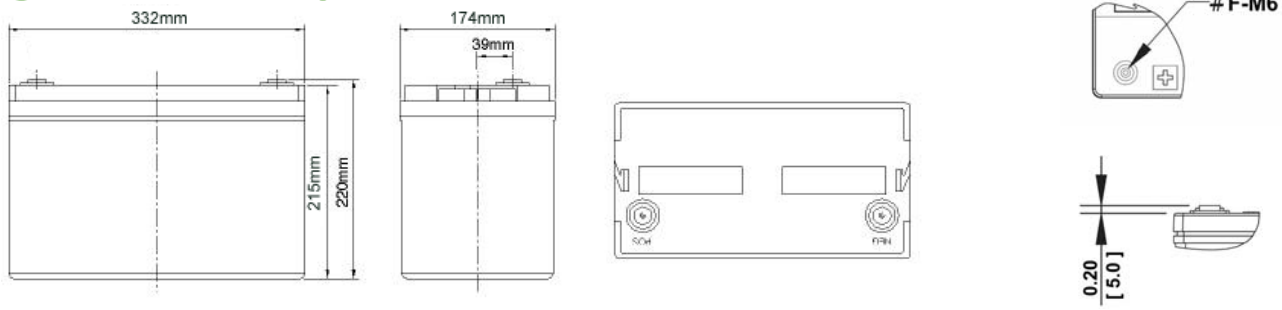

ST-12110 – Specifications

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	72.6 lbs 33 kg	Absorbed H_2SO_4 SG = 1.300	710 Amps	3000 Amps	0.0034

Capacity	126 Ah @ 20 hr. rate to 1.75 volts per cell @ 77°F (25°C). 110 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 (31.5 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 = 6.3 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	98.6	76.7	55.1	43.8	36.2	24.9	20.6	17.8	12.1	9.73
1.80	107	80.6	57.9	45.7	38.1	26.1	21.8	18.6	12.3	10.3
1.75	113	82.6	59.1	46.6	38.9	26.7	22.2	19.0	12.4	10.5

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	49.3	39.5	28.2	22.2	18.3	12.4	10.3	8.88	5.89	4.98
1.80	53.5	41.9	30.0	23.4	19.5	13.3	11.0	9.37	6.12	5.15
1.75	57.1	43.0	30.6	24.2	19.9	13.6	11.3	9.63	6.30	5.34

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