



**EVEREXCEED AGM TECHNOLOGY**

**FT12V100A**

**VALVE REGULATED**

**LEAD ACID BATTERY (AVR)**

**FOR COMMUNICATION**

**STANDBY POWER APPLICATIONS**

**12V 103AH @ 10 HR RATE to 1.80VPC**

**12V 102AH @ 8 HR RATE to 1.75VPC**

**12V 320 WATTS/CELL @ 15MIN RATE to 1.67VPC**

**LONG  
DURATION**

**HIGH  
PERFORMANCE**



**Innovative Features**

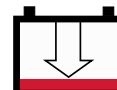
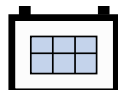
- ◆ Virgin pure Lead, Tin and thick positive plate technology for 12 years design life in float applications @ 20°C(68°F).
- ◆ UL Recognized component;
- ◆ Valve regulated lead acid battery (VRLA);
- ◆ Optimized high-compression Absorbed Glass Mat (AGM) materials significantly enhance performance and reliability, greater than 99% recombination efficiency;
- ◆ Proprietary Fixed Orifice Plate Pasting technology applying active materials on both sides of the grid for consistent cell-to-cell performance, higher capacity and uniform grid protection.
- ◆ Advanced triple stage unique terminal sealing design to ensure leak free operation;
- ◆ Low self-discharge rate < 3% per month;
- ◆ Heavy duty M6 / M8 Female copper plated terminals provide maximum performance and easy installation, reduce maintenance and increase safety;
- ◆ Advanced lead high-tin low-calcium alloy, reduces grid corrosion and promotes long battery life;
- ◆ Standard: Reinforced ABS (UL 94HB) container and cover;  
Optional: Flame-retardant reinforced ABS case and cover compliant with U.L.94 V-0 with an Oxygen Limiting Index of greater than 28%;
- ◆ Designed to withstand extreme temperature degrees and performance without degradation;
- ◆ Flame arresting, low pressure safety release venting system for individual cells, recognized per U.L.924;

**12 VOLTS - 103AMPERE HOUR @ 10 HOUR RATE**

**AH Capacity to 1.80VPC @ 20°C (68°F)**

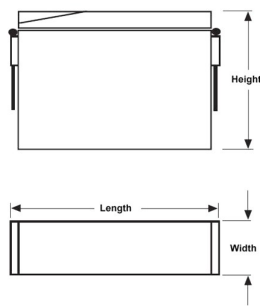
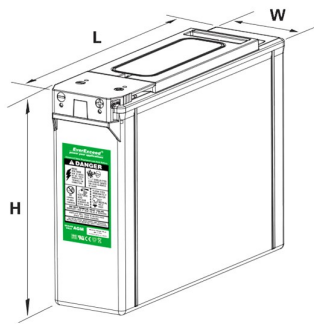
End Point Volts/Cell	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	20hr
1.80	63.9	75.2	82.9	87.6	91.2	96.8	98.4	103	111

**For UPS / Solar / Telecommunication Applications**

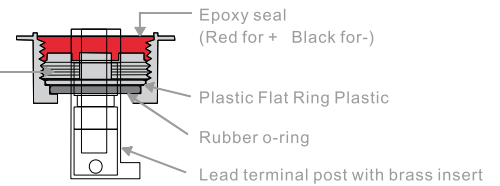


# FT AGM Range VRLA

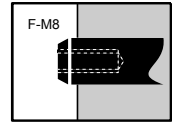
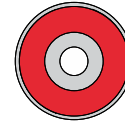
**EverExceed®**  
power your applications



Plastic screwed cap to hold down flat and o-ring



Length (L): 395 mm  
Width (W): 110 mm  
Height (H): 285 mm



Electrical Specifications						
Cells Per Unit	Voltage Per Unit	Weight	Electrolyte	Maximum discharge current ( 5s )	Short Circuit Current	Internal Resistance (mΩ)
6	12.84	74.8lbs 34.0kg	SG = 1.300	1236Amps	3000Amps	4.7

<b>Capacity</b>	103 Ah @ 10 hr. rate to 1.80 volts per cell @ 20°C (68°F). 102 Ah @ 8 hr. rate to 1.75 volts per cell @ 20°C (68°F). 320 Watts per all at the 15 minute rate to 1.67 volts per cell @ 20°C (68°F).
<b>Applicable Operating Temperature Range</b>	-40°C (-40°F) to +70°C (+158°F).
<b>Ideal Operating Temperature Range</b>	+20°C (+68°F) to +28°C (+82.4°F).
<b>Floating Charging Voltage</b>	13.5 to 13.8 VDC/unit Average at 25°C (77°F).
<b>Recommended Maximum Charging Current Limit</b>	25.75 Amperes ( 0.25C10 Amperes )
<b>Equalization and Cycle Service Charging Voltage</b>	14.1 to 14.4 VDC/unit Average at 25°C (77°F).
<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 = 0.5% RMS (4% P-P). Maximum current allowed = 0.52 amperes RMS (C/10 ) to 1.80VPC.
<b>Self Discharge</b>	EverExceed FT AGM Range batteries may be stored for up to 12 months at 20°C~25°C (68°F~77°F) 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 NM

Constant Power Discharging Ratings - Watts Per Cell @ 20°C (68°F)															
End Point Volts/Cell	5min	10min	15min	30min	45min	60min	End Point Volts/Cell	2hr	3hr	4hr	5hr	6hr	8hr	10hr	20hr
1.80	441	338	280	179	136	113	1.85	72.7	52.2	41.2	36.4	34.3	23.6	19.8	11.0
1.75	485	361	305	185	140	116	1.8	76.5	55.0	43.5	38.3	36.2	24.8	20.6	11.5
1.67	529	389	320	190	141	117	1.75	78.5	56.1	44.3	39.0	36.9	25.3	21.1	11.8

Constant Current Discharging Ratings - Ampere per Cell @ 20°C (68°F)															
End Point Volts/Cell	5min	10min	15min	30min	45min	60min	End Point Volts/Cell	2hr	3hr	4hr	5hr	6hr	8hr	10hr	20hr
1.80	239	180	153	106	79.8	63.9	1.85	36.3	26.1	20.7	17.1	15.3	11.9	10.0	5.41
1.75	273	198	167	109	82.9	66.4	1.8	37.6	27.6	21.9	18.2	16.1	12.3	10.3	5.56
1.67	315	220	181	111	83.9	67.5	1.75	38.4	28.3	22.5	18.5	16.7	12.7	10.5	5.67

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

