



# HIGH PERFORMANCE

EVEREXCEED AGM TECHNOLOGY



## FT12V180A

VALVE REGULATED

LEAD ACID BATTERY (AVR)

FOR COMMUNICATION

STANDBY POWER APPLICATIONS

12V 185AH @ 10 HR RATE to 1.80VPC

12V 184AH @ 8 HR RATE to 1.75VPC

12V 574 WATTS/CELL @ 15MIN RATE to 1.67VPC

# LONG DURATION

### Innovative Features

- ◆ Virgin Pure Lead Tin and thick positive plate technology design for maximum service float life - 12 years design life @ 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 - 185 AMPERE HOUR @ 10 HOUR RATE

AH Capacity to 1.80VPC @ 20°C (68°F)

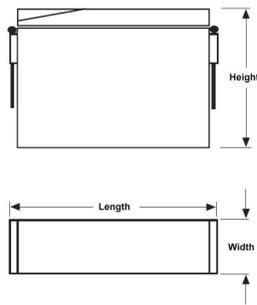
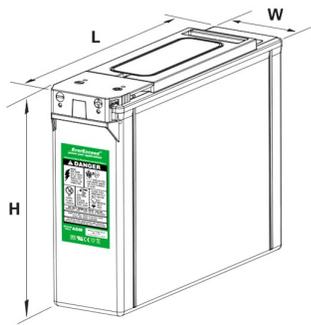
End Point Volts/Cell	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	20hr
1.80	115	135	149	158	164	174	177	185	200

For UPS / Solar / Telecommunication Applications

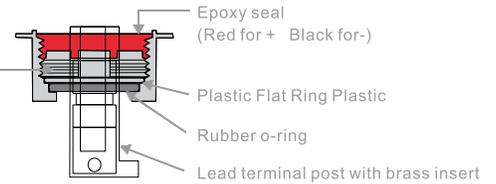


# FT AGM Range VRLA

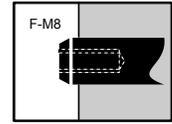
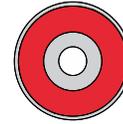
**EverExceed®**  
power your applications



Plastic screwed cap to hold down flat and o-ring



Length (L): 560 mm  
Width (W): 125 mm  
Height (H): 316 mm



## Electrical Specifications

Cells Per Unit	Voltage Per Unit	Weight	Electrolyte	Maximum discharge current ( 5s )	Short Circuit Current	Internal Resistance (mΩ)
6	12.84	128lbs 58.0kg	SG = 1.300	1850Amps	4500Amps	3.3

<b>Capacity</b>	185 Ah @ 10 hr. rate to 1.80 volts per cell @ 20°C (68°F). 184 Ah @ 8 hr. rate to 1.75 volts per cell @ 20°C (68°F). 574Watts 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 20°C (77°F).
<b>Recommended Maximum Charging Current Limit</b>	46.25 Amperes (0.25C10 Amperes )
<b>Equalization and Cycle Service Charging Voltage</b>	14.1 to 14.4 VDC/unit Average at 20°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 = 0.93 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	747	573	513	359	278	221	1.85	124	92.7	73.5	61.2	53.3	42.2	35.2	19.9
1.75	838	626	540	374	286	228	1.8	128	95.5	76.0	64.1	54.3	44.0	36.4	20.6
1.67	916	677	574	383	292	231	1.75	130	96.4	76.7	65.4	55.6	44.8	37.4	21.0

## 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	431	324	276	190	144	115	1.85	65.4	47.0	37.3	30.8	27.5	21.4	18.0	9.73
1.75	491	357	301	197	149	120	1.8	67.7	49.7	39.4	32.8	29.0	22.1	18.5	10.0
1.67	567	397	326	199	151	121	1.75	69.1	51.0	40.6	33.4	30.1	23.0	18.8	10.2

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

