



**EVEREXCEED AGM TECHNOLOGY**

**FT12V190**

**VALVE REGULATED  
LEAD ACID BATTERY (AVR)  
FOR COMMUNICATION  
STANDBY POWER APPLICATIONS**

12V 190AH @ 10 HR RATE to 1.80VPC

12V 188AH @ 8 HR RATE to 1.75VPC

12V 588 WATTS/CELL @ 15MIN RATE to 1.67VPC

**LONG  
DURATION**



**HIGH  
PERFORMANCE**

**Innovative Features**

- ◆ 12 years design life @ 25°C(77°F);
- ◆ Virgin Pure Lead Tin and thick positive plate technology design for maximum service float life ;
- ◆ 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;
- ◆ Up to 12 months shelf life due to low self-discharge rate (less than 3%/month at 25°C)
- ◆ 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 UL94 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 UL 924.

12 VOLTS - 190 AMPERE HOUR @ 10 HOUR RATE

AH Capacity to 1.80VPC @ 25°C (77°F)

End Point Volts/Cell	1hr	2hr	3hr	4hr	5hr	6hr	8hr	10hr	20hr
1.80	118	139	153	162	168	179	181	190	205

**For UPS / Solar / Telecommunication Applications**



EverExceed | Empower, Energize, Exceed  
the Energy you Expect forever

[www.exerexceed.com](http://www.exerexceed.com)



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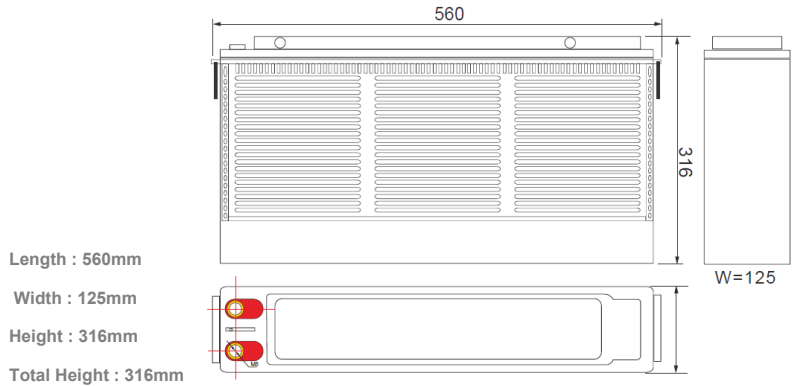
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Electrical Specifications	
Cells Per Unit	6
Voltage Per Unit	12.84V
Weight	118.8lbs 54.0kg
Electrolyte	SG = 1.300
Maximum Discharge Current@5s	1900Amps
Short Circuit Current	4800Amps
Internal Resistance	3.2(mΩ)



<b>Capacity</b>	190 Ah @ 10 hr. rate to 1.80 volts per cell @ 25°C (77°F). 188 Ah @ 8 hr. rate to 1.75 volts per cell @ 25°C (77°F). 588Watts per all at the 15 minute rate to 1.67 volts per cell @ 25°C (77°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>	47.5 Amperes ( 0.25C <sub>10</sub> 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 = 0.28 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 25°C (77°F) and then a freshening charge is required. For higher temperatures the recharge 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 @ 25°C (77°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	766	587	525	368	285	226	1.85	127	95.0	75.3	62.7	54.6	43.2	36.1	20.4
1.75	859	641	553	383	294	234	1.8	131	97.9	77.9	65.6	55.7	45.1	37.3	21.1
1.67	939	694	588	392	299	237	1.75	133	98.8	78.6	67.0	57.0	45.9	38.3	21.5

Constant Current Discharging Ratings - Ampere per Cell @ 25°C (77°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	442	333	283	195	147	118	1.85	67.0	48.1	38.2	31.5	28.2	22.0	18.4	10.0
1.75	504	366	309	201	153	123	1.8	69.4	51.0	40.4	33.6	29.8	22.7	19.0	10.3
1.67	581	407	334	204	155	124	1.75	70.8	52.3	41.6	34.2	30.9	23.5	19.3	10.5

**Note:** Batteries to be mounted with 0.39 in (1.00 cm) spacing minimum and free air ventilation.  
Specifications subject to change without notification.



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