



AM 12-5

SEALED RECHARGEABLE LEAD ACID BATTERY

Performance Specifications

Normal Voltage 12V



Normal Capacity

20 hour rate (250 mA to 10.5 volts): 5.00 Ah
 10 hour rate (470 mA to 10.5 volts): 4.70 Ah
 5 hour rate (900 mA to 10.2 volts): 4.50 Ah
 1 hour rate (3.80 A to 9.00 volts): 3.80 Ah

Internal Resistance 40 milliohms

Weight 1.52 kg (3.63 lbs)

Applicable Operating Temperature Range -40°C(-40°F) to +70°C (+158°F)

Ideal Operating Temperature Range +20°C (+68°F) to +28°C (+82.4°F)

Charge Retention (Shelf Life) at 68°F(20°C)	1 month	97%
	3 month	91%
	6 month	85%

Standby Service 8 years

Cycle Service	100% depth of discharge	350 cycles
	50% depth of discharge	650 cycles
	30% depth of discharge	1300 cycles

Standard Terminals Faston Tab No.187

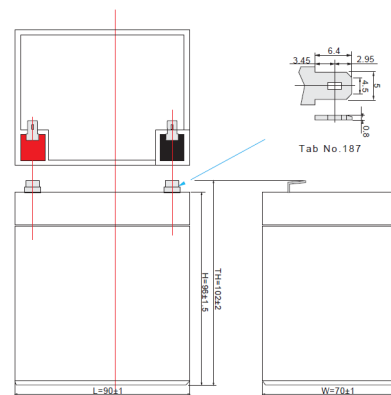


HIGH PERFORMANCE

Innovative Features

- ◆ 5-8 years design life @ 25°C(77°F) ambient temperature;
- ◆ High quality and stability, using best 99.994% virgin pure lead;
- ◆ Rechargeable VRLA batteries with an electrolyte retained in a glass mat with a very fine glass fiber structure;
- ◆ Ultra-low water loss rates due to high compression absorption glass mat technology (AGM) with a reconstitution efficiency of over 99%;
- ◆ 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;
- ◆ Perfect combination between energy storage performance and reliability;
- ◆ Up to 12 months shelf life due to low self-discharge rate (less than 3%/month at 25°C);
- ◆ Plate grid consisting of the high performance Lead Calcium Tin alloy for optimized corrosion resistance and long life;
- ◆ High impact resistant ABS resin cases and covers;
- ◆ Available in UL94V-0 Flame Retardant Material;
- ◆ In compliance with IEC 60896-21/22 , UL1989;
- ◆ Wide operating temperature range.

Dimensions and Terminal



Length : 90mm Width : 70mm Height : 94mm Total Height : 100mm



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www.exerexceed.com



Headquarter:

Shenzhen EverExceed Industrial Co., Ltd

Ⓧ Floor 19, Kechuang Building Hengchangrong High TechPark, Dezheng Road, Shiyao Bao'an District, Shenzhen.

🌐 www.everexceed.com

✉ marketing@everexceed.com

Branch Company:

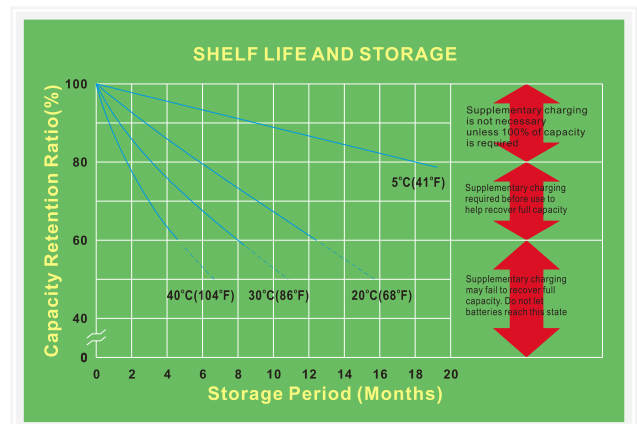
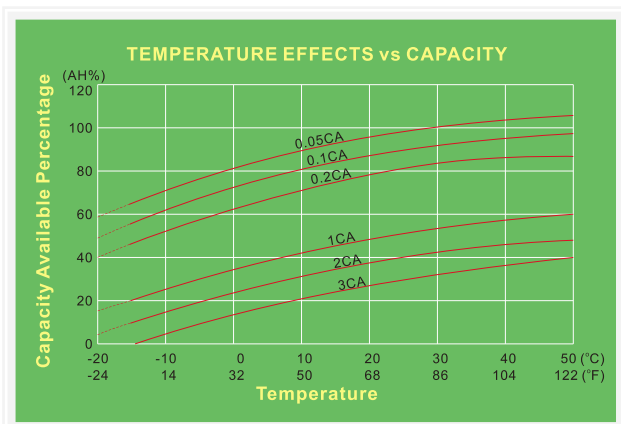
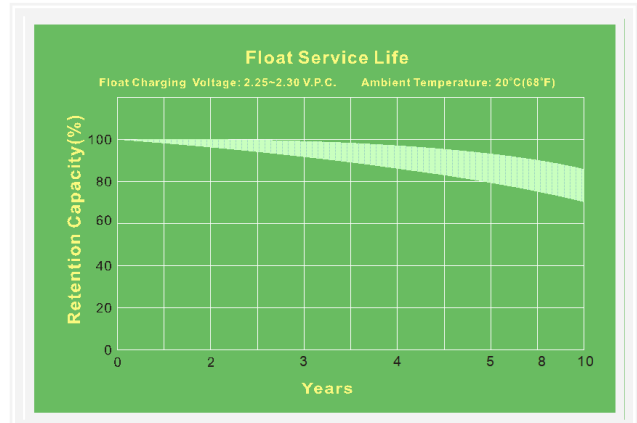
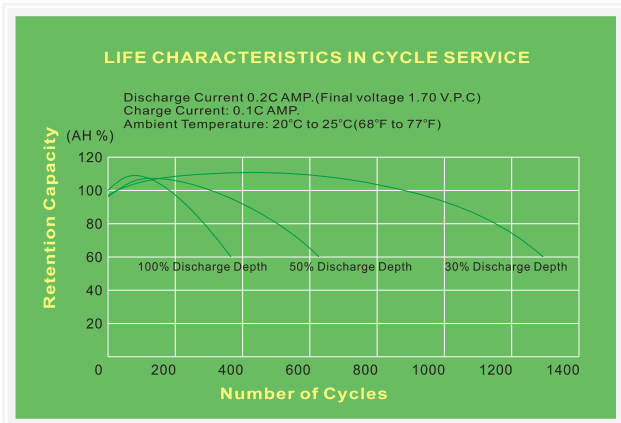
EverExceed International Company Limited (HK)

Ⓧ 19H Maxgrand Plaza No3 Tai Yau St San PO Kong KLN Hongkong
 ✉ info@everexceed.com

EverExceed Corporation Ltd. (UK)

Ⓧ Unit G25 WaterFront Studios, 1 Dock Road, London, United Kingdom
 ✉ Europe@everexceed.com

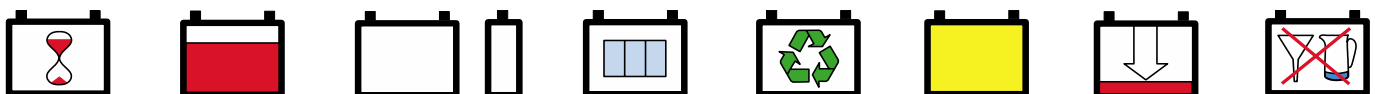
Performance Curves



Discharge Characteristics

Constant Current Discharge Characteristics - Amperes @ 25°C (77°F)												
Final VPC	5min	10min	15min	20min	25min	30min	45min	60min	90min	120min	180min	240min
1.80	17.4	12.2	8.87	7.18	6.41	5.50	4.01	3.22	2.33	1.88	1.30	1.04
1.75	19.3	13.3	9.50	7.60	6.63	5.64	4.13	3.28	2.39	1.91	1.32	1.07
1.67	21.9	14.7	10.1	7.90	6.83	5.81	4.53	3.34	2.43	1.93	1.32	1.08

Constant Current Discharge Characteristics - Watts Per Cell @ 25°C (77°F)												
Final VPC	5min	10min	15min	20min	25min	30min	45min	60min	90min	120min	180min	240min
1.80	29.4	20.6	14.6	11.8	10.5	9.03	6.59	5.41	3.96	3.21	2.24	1.82
1.75	32.7	21.8	15.5	12.4	10.8	9.19	6.73	5.49	4.04	3.25	2.27	1.84
1.67	37.0	23.6	17.0	13.4	11.5	9.82	7.13	5.70	4.18	3.34	2.31	1.87



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