



AGM Technology  
 ABT Thunder TM...W Series

**Complying standards:**  
 IEC60896-21/22:2004  
 JIS C8702-1/2-2009

## TM12-300W

12V80Ah(10hr)



ABT Thunder TM...W series VRLA are batteries according to Eurobat Classification and specially designed for application which need high power backup.

Thunder TM...W is the premium plus VRLA battery for UPS and diesel start application.

### Mechanical Characteristics

	SI Unit	EN Unit
Length	350mm	13.78inch
Width	167mm	6.57inch
Height	179.5mm	7.07inch
Total Height	179.5mm	7.07inch
Approx. Weight	24.6kg	54.12lbs
Type of material for container and lids: ABS Standard (FV0 Optional)		

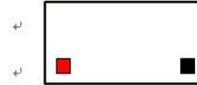
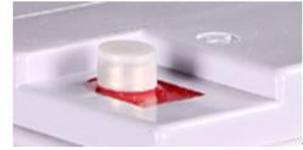
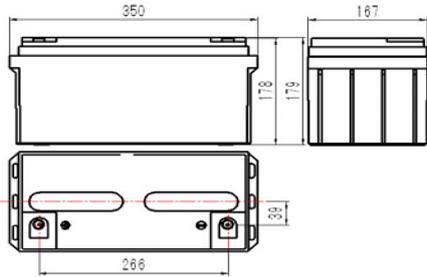
### Product Characteristics

- 12 years life expectancy in float service at 68°F (20°C)
- High current discharge and high power output performance
- High charging performance
- Low rate of self-discharge :≤2% (25°C) monthly on average
- Usable for vertical or horizontal
- Easy installation and handling
- Safety and reliable leakage-proof performance

### Performance Characteristics

- Rated voltage: 12V (6 cells)
- Rated capacity at 68°F (20°C)  
 15 min watt @ 1.67V 300W per cell  
 1h rate(49.8A, 10.2V) 49.8Ah  
 10h rate(8.0A, 10.8V) 80Ah
- Internal resistance:  
 5.0mΩ when fully charged at 68°F(20°C)
- Average self-discharge rate:  
 ≤2% per month 68°F(20°C)
- Maximum discharge current:  
 960A(5s) at 68°F(20°C)
- Working temperature range:  
 Discharge: -15~45°C  
 Charge: -10~45°C  
 Storage: -20~55°C
- Charging method:  
 with constant voltage at 68°F(20°C)  
 Maximum charge current: 24A  
 Temperature compensation: -21mV/°C/piece  
 Cycle use: 14.52 V/ piece  
 Standby use: 13.74 V/ piece

**Dimensions/Terminal**



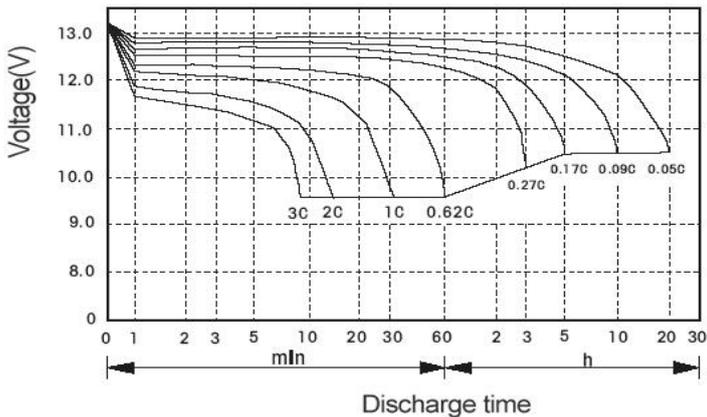
**Constant Current Discharge Data (Ampere at 20°C/68 °F)**

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h
1.60	207	166	138	95	69.9	55.2	41.9	33.8	23.8	18.3	15.4	13.2	8.80
1.67	189	153	127	88.4	65.8	51.9	40.0	32.3	22.7	17.6	14.8	12.7	8.48
1.70	178	143	120	85.0	63.5	49.8	39.2	31.8	22.3	17.3	14.5	12.5	8.32
1.75	167	133	111	79.5	60.0	48.0	38.1	30.9	21.7	17.0	14.2	12.3	8.16
1.80	154	122	105	75.3	55.5	45.6	36.6	29.8	21.0	16.5	13.9	12.0	8.00

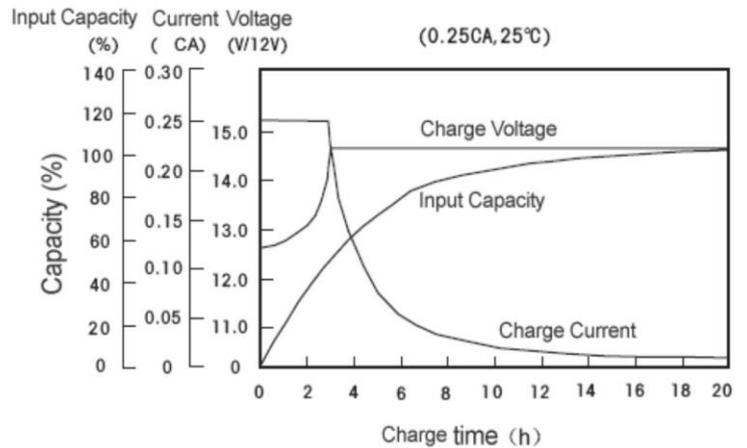
**Constant Power Discharge Data (Watts per cell at 20°C/68 °F)**

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h
1.60	360	315	274	198	149	111	89.5	68.2	51.0	39.7	32.3	27.4	18.1
1.67	343	300	260	186	142	105	84.8	64.6	48.7	37.9	30.6	26.6	17.8
1.70	336	296	254	180	140	103	83.3	63.5	48.0	37.3	30.2	26.2	17.5
1.75	326	284	244	175	136	100	81.4	62.2	46.5	36.1	29.5	25.7	17.3
1.80	313	273	236	167	130	96	78.4	60.1	45.1	35.1	28.7	25.1	16.9

**Discharge curve under different discharge rate**



**Charge capacity vs. charge time**



Contact information

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**ABT VRLA Battery: Available power range from 26Ah to 3000Ah.**

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