



AGM Technology  
 ABT Thunder TM...W Series

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

## TM12-660W

12V180Ah(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	497mm	19.57inch
Width	203mm	7.99inch
Height	228mm	8.98inch
Total Height	237mm	9.33inch
Approx. Weight	58.0kg	127.6lbs
Type of material for container and lids: ABS Standard (FV0 Optional)		

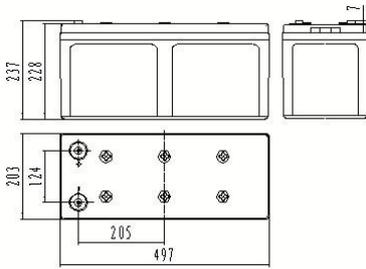
### Product Characteristics

- 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 660W per cell  
 1h rate(112A, 10.2V) 112Ah  
 10h rate(18.0A, 10.8V) 180Ah
- Internal resistance:  
 2.5mΩ when fully charged at 68°F(20°C)
- Average self-discharge rate:  
 ≤2% per month 68°F(20°C)
- Maximum discharge current:  
 1980A(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: 54.0A  
 Temperature compensation: -21mV/°C/piece  
 Cycle use: 14.52 V/ piece  
 Standby use: 13.74 V/ piece

**Dimensions/Terminal**



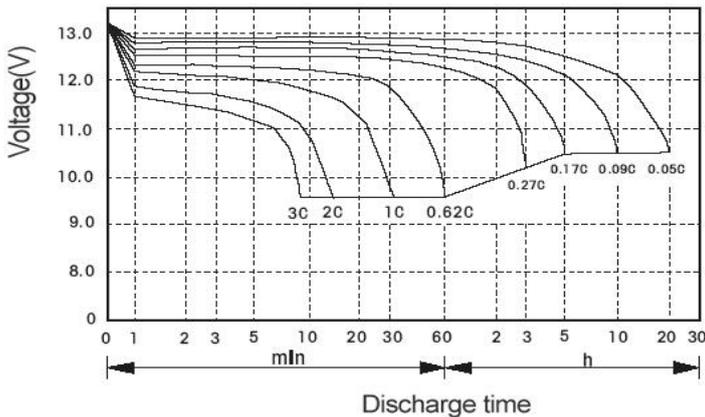
**Constant Current Discharge Data (Ampere at 20°C/68 °F)**

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h
1.60	450	386	324	223	168	120	97	74.3	53.9	42.5	34.7	29.7	18.5
1.67	417	360	304	211	159	114	93.0	71.4	51.3	40.0	33.8	28.9	18.3
1.70	403	346	296	205	156	112	91.4	70.3	50.3	39.7	33.2	28.8	18.2
1.75	380	333	281	196	149	108	88.6	68.4	48.8	38.9	33.0	28.4	18.1
1.80	353	313	262	186	142	104	85.4	66.2	46.8	37.7	32.1	27.9	18.0

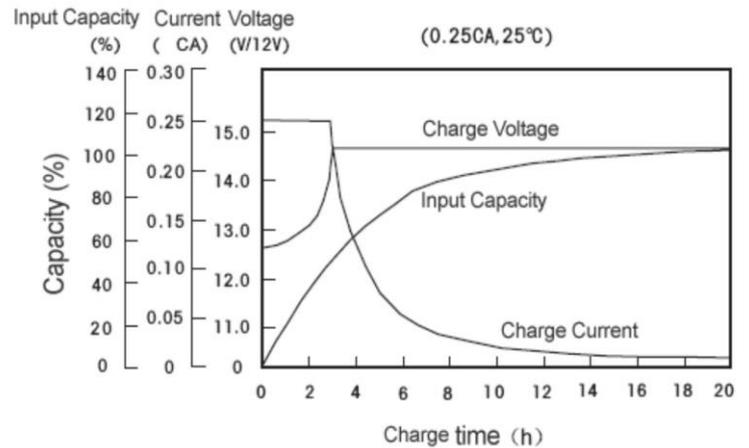
**Constant Power Discharge Data (Watts per cell at 20°C/68 °F)**

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h
1.60	792	695	574	425	318	255	194	147	101	80.3	68.4	59.9	37.6
1.67	731	660	538	409	305	243	182	140	95.9	77.8	65.6	57.5	36.5
1.70	703	640	518	399	300	238	178	138	93.8	76.8	64.9	57.1	36.1
1.75	675	609	498	388	296	231	174	135	92.2	75.9	63.8	55.7	35.5
1.80	642	587	478	372	284	221	169	131	90.5	74.1	61.8	54.3	34.4

**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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