



AGM Technology  
 ABT Thunder TM...W Series

**Complying standards:**

IEC60896-21/22:2004

JIS C8702-1/2-2009

**TM12-770W**

12V210Ah(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	522mm	20.55inch
Width	234mm	9.21inch
Height	218mm	8.58inch
Total Height	225mm	8.86inch
Approx. Weight	67kg	147.4lbs
Type of material for container and lids: ABS Standard (FV0 Optional)		

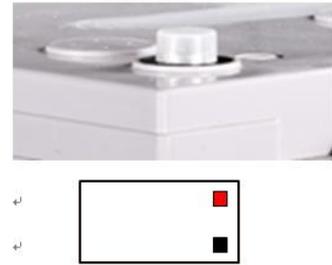
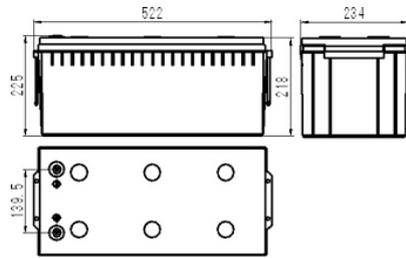
**Product Characteristics**

- 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 770W per cell  
1h rate(130A, 10.2V) 130Ah  
10h rate(21.0A, 10.8V) 210Ah
- Internal resistance:  
2.1mΩ when fully charged at 68°F (20°C)
- Average self-discharge rate:  
≤2% per month 68°F (20°C)
- Maximum discharge current:  
2100A(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: 63.0A  
Temperature compensation: -21mV/°C/piece  
Cycle use: 14.52 V/ piece  
Standby use: 13.74 V/ piece

**Dimensions/Terminal**



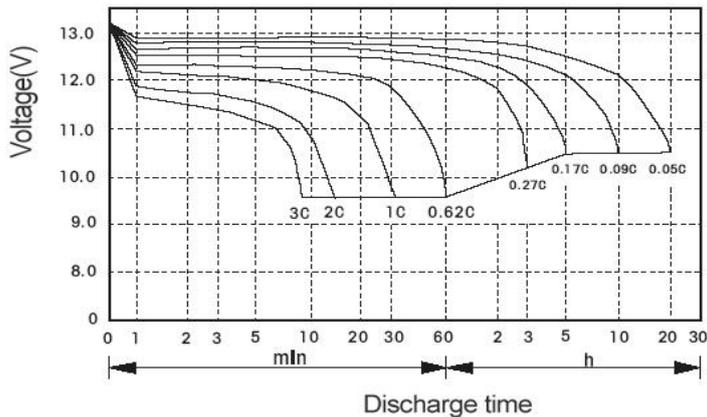
**Constant Current Discharge Data (Ampere at 20°C/68 °F)**

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h
1.60	510	444	383	251	198	139	116	86.6	61.6	50.2	41.0	35.1	21.8
1.67	473	415	360	237	188	132	111	83.2	58.6	47.3	39.9	34.2	21.5
1.70	458	400	349	230	184	130	109	82.0	57.4	46.9	39.2	34.0	21.4
1.75	431	383	332	219	176	126	105	79.8	55.7	46.0	39.0	33.5	21.1
1.80	402	360	313	208	168	121	102	77.2	53.5	44.5	37.9	33.0	21.0

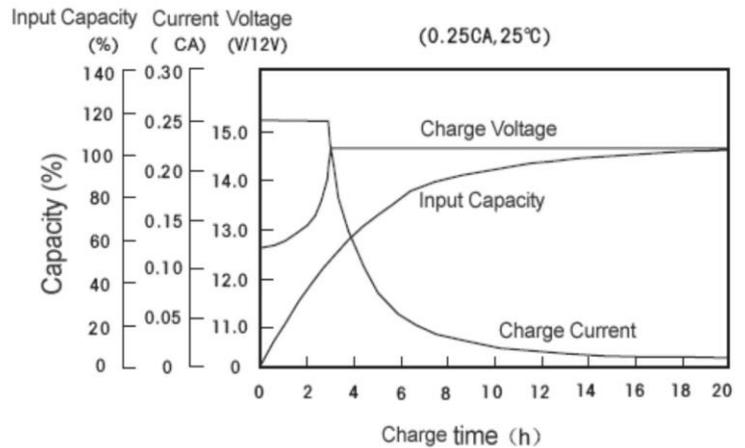
**Constant Power Discharge Data (Watts per cell at 20°C/68 °F)**

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h
1.60	924	814	679	497	370	297	227	168	119	98.1	83.6	71.3	44.1
1.67	853	770	635	477	355	283	214	160	114	95.1	80.2	69.1	42.8
1.70	821	752	612	467	348	277	209	157	112	93.9	79.4	67.9	42.4
1.75	787	725	589	453	341	269	204	154	110	92.8	78.0	66.8	41.6
1.80	750	690	565	434	330	258	198	150	108	90.6	75.6	64.9	40.3

**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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 (Edition: Feb., 2021)