



AGM Technology  
 ABT Thunder TM...W Series

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

## TM12-390W

12V100Ah(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	330mm	12.99inch
Width	174mm	6.85inch
Height	217mm	8.54inch
Total Height	226mm	8.90inch
Approx. Weight	31.6kg	69.52lbs
Type of material for container and lids: ABS Standard (FV0 Optional)		

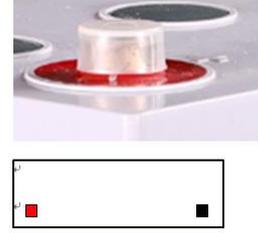
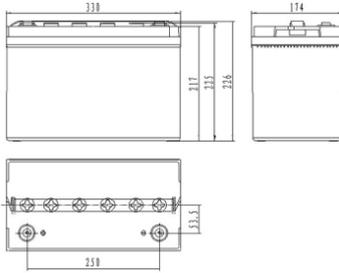
### Product Characteristics

- 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 390W per cell  
 1h rate(62.5A, 10.2V) 62.5Ah  
 10h rate(10.0A, 10.8V) 100Ah
- Internal resistance:  
 3.8mΩ when fully charged at 68°F (20°C)
- Average self-discharge rate:  
 ≤2% per month 68°F (20°C)
- Maximum discharge current:  
 1200A(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: 30A  
 Temperature compensation: -21mV/°C/piece  
 Cycle use: 14.52 V/ piece  
 Standby use: 13.74 V/ piece

**Dimensions/Terminal**



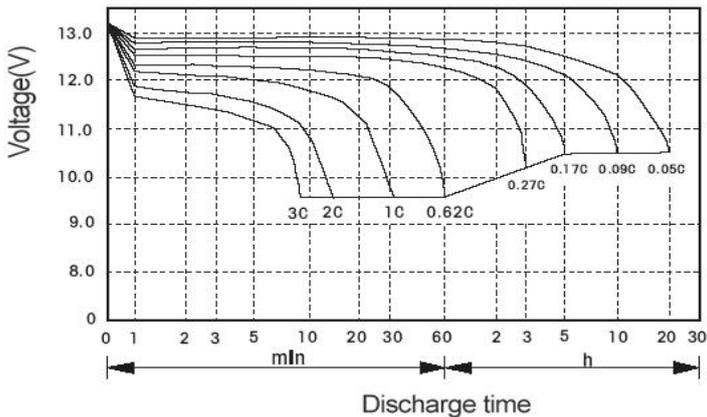
**Constant Current Discharge Data (Ampere at 20°C/68 °F)**

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h
1.60	258	213	190	128	96.2	70.0	52.4	39.0	29.7	22.9	19.3	16.5	11.0
1.67	247	200	175	119	90.4	65.3	50.0	37.2	28.4	22.1	18.4	15.9	10.6
1.70	233	187	165	114	87.3	62.5	49.0	36.6	27.9	21.7	18.1	15.7	10.4
1.75	214	174	153	107	82.5	60.0	47.6	35.6	27.1	21.2	17.7	15.4	10.2
1.80	198	160	145	101	76.3	56.7	45.8	34.4	26.3	20.7	17.3	15.0	10.0

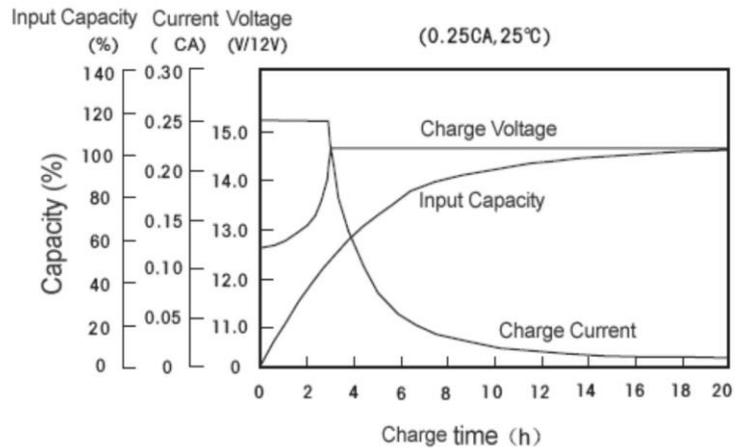
**Constant Power Discharge Data (Watts per cell at 20°C/68 °F)**

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h
1.60	466	395	346	242	186	137	104	79.3	56.9	49.6	40.3	34.3	22.6
1.67	447	390	329	227	177	129	99	75.1	54.3	47.4	38.3	33.3	22.2
1.70	426	385	321	221	175	126	97	73.8	53.5	46.6	37.7	32.7	21.9
1.75	401	365	308	213	170	123	95	72.3	52.0	45.1	36.9	32.1	21.6
1.80	375	340	298	205	163	118	91.1	69.8	50.2	43.8	35.9	31.3	21.2

**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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