



AGM Technology
 ABT Thunder TM...W Series

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

TM12-600W

12V165Ah(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	55.0kg	121.0lbs
Type of material for container and lids: ABS Standard (FV0 Optional)		

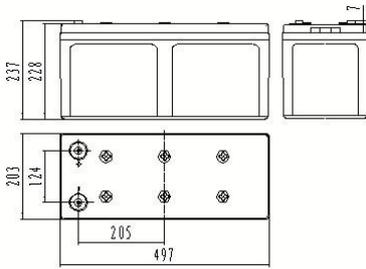
Product Characteristics

- 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 600W per cell
 1h rate(103A, 10.2V) 103Ah
 10h rate(16.5A, 10.8V) 165Ah
- Internal resistance:
 2.7mΩ when fully charged at 68°F(20°C)
- Average self-discharge rate:
 ≤2% per month 68°F(20°C)
- Maximum discharge current:
 1760A(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: 49.5A
 Temperature compensation: -21mV/°C/piece
 Cycle use: 14.52 V/ piece
 Standby use: 13.74 V/ piece

Dimensions/Terminal



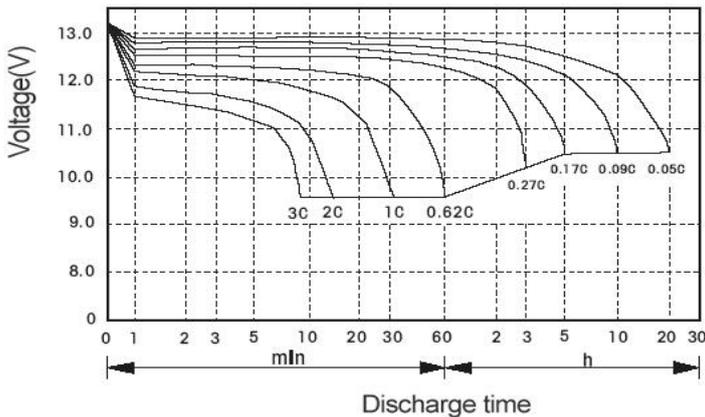
Constant Current Discharge Data (Ampere at 20°C/68 °F)

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h
1.60	410	352	295	212	152	110	92.8	68.1	49.4	38.6	31.6	27.0	17.0
1.67	380	329	277	193	145	105	88.8	65.4	47.0	36.4	30.7	26.3	16.8
1.70	367	317	269	188	141	103	87.3	64.5	46.1	36.1	30.2	26.1	16.7
1.75	345	304	255	178	136	99.0	84.5	62.7	44.7	35.4	30.0	25.8	16.6
1.80	321	285	238	165	129	95.4	81.4	60.6	42.9	34.2	29.1	25.4	16.5

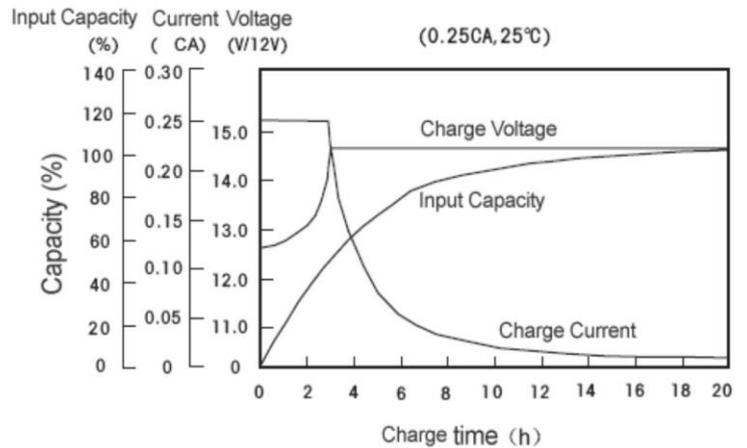
Constant Power Discharge Data (Watts per cell at 20°C/68 °F)

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h
1.60	720	632	522	366	289	232	176	134	91.7	73.0	62.2	54.5	34.2
1.67	666	600	489	352	278	221	165	127	87.2	70.7	59.7	52.3	33.2
1.70	639	582	471	344	272	216	162	125	85.3	69.8	59.0	51.9	32.8
1.75	613	554	453	331	269	210	158	123	83.9	69.0	58.0	50.7	32.3
1.80	584	534	434	318	258	201	154	119	82.3	67.4	56.2	49.4	31.3

Discharge curve under different discharge rate



Charge capacity vs. charge time



Contact information

Advanced Battery Technology BV
 Add. New Yorkstraat 14 1175 RD Lijnden Amsterdam, Netherland
 Web: <http://www.abtbatt.com> Email: sales@abtbatt.com

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

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