



AGM Technology
 ABT Thunder TM...W Series

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

TM12-255W

12V70Ah(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	261mm	10.28inch
Width	171mm	6.73inch
Height	209mm	8.23inch
Total Height	217mm	8.54inch
Approx. Weight	22.5kg	49.5lbs
Type of material for container and lids: ABS Standard (FV0 Optional)		

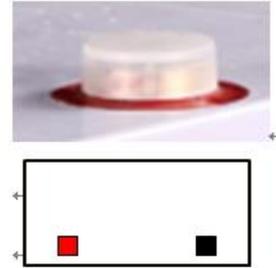
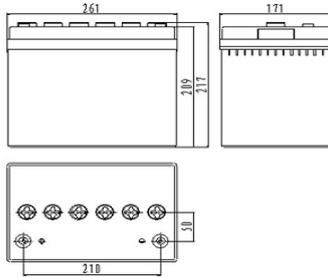
Product Characteristics

- 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 255W per cell
 1h rate(43.8 A, 10.2V) 43.8 Ah
 10h rate(7.0A, 10.8V) 70Ah
- Internal resistance:
 5.8mΩ when fully charged at 68°F(20°C)
- Average self-discharge rate:
 ≤2% per month 68°F(20°C)
- Maximum discharge current:
 840A(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: 21A
 Temperature compensation: -21mV/°C/piece
 Cycle use: 14.52 V/ piece
 Standby use: 13.74 V/ piece

Dimensions/Terminal



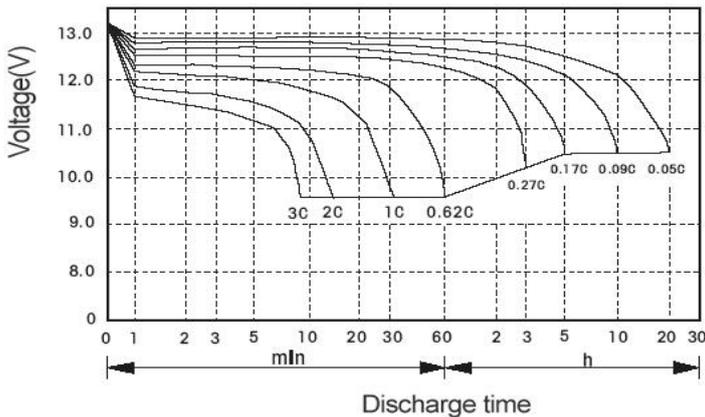
Constant Current Discharge Data (Ampere at 20°C/68 °F)

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h
1.60	163	145	133	86.8	67.3	49.0	36.7	29.0	20.8	16.1	13.5	11.5	7.70
1.67	152	137	122	83.3	63.3	45.8	35.0	27.8	19.9	15.4	12.9	11.2	7.42
1.70	148	128	116	80.1	61.1	43.8	34.3	27.3	19.5	15.2	12.7	11.0	7.28
1.75	139	119	107	74.9	57.7	42.0	33.3	26.5	19.0	14.8	12.4	10.7	7.14
1.80	129	110	101	71.0	53.4	39.8	32.1	25.6	18.4	14.5	12.1	10.5	7.00

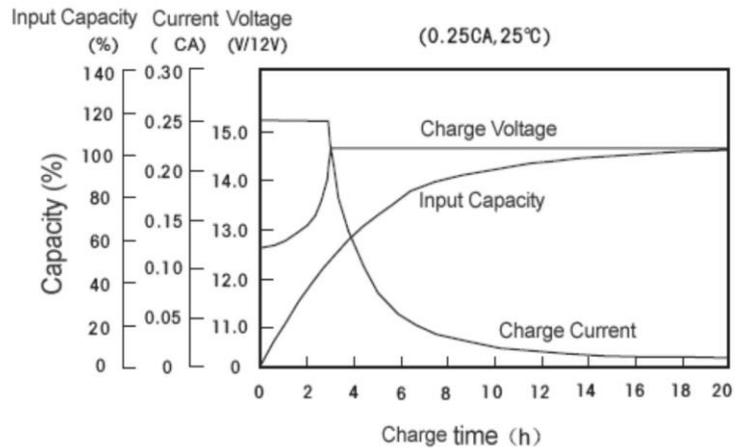
Constant Power Discharge Data (Watts per cell at 20°C/68 °F)

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h
1.60	295	260	221	162	124	97.8	74.6	56.9	42.5	33.0	26.9	22.9	15.1
1.67	277	255	211	152	118	92.9	70.7	53.9	40.6	31.6	25.5	22.2	14.8
1.70	268	252	205	148	117	90.8	69.4	52.9	40.0	31.0	25.1	21.8	14.6
1.75	258	242	197	143	113	88.1	67.8	51.8	38.8	30.0	24.6	21.4	14.4
1.80	245	232	191	137	109	84.6	65.3	50.1	37.6	29.2	23.9	20.9	14.1

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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