



AGM Technology
 ABT Thunder TM...W Series

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

TM12-440W

12V115Ah(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	375mm	14.76inch
Width	174mm	6.85inch
Height	219mm	8.62inch
Total Height	227mm	8.94inch
Approx. Weight	36.2kg	79.64lbs
Type of material for container and lids: ABS Standard (FV0 Optional)		

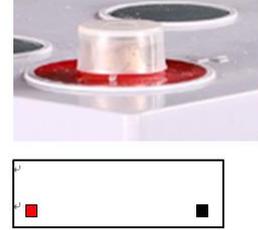
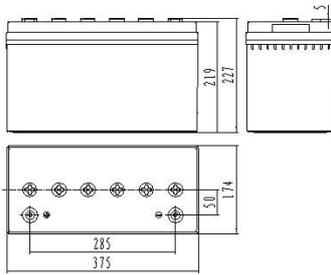
Product Characteristics

- 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 440W per cell
 1h rate(71.7A, 10.2V) 71.7Ah
 10h rate(11.5A, 10.8V) 115Ah
- Internal resistance:
 3.7mΩ when fully charged at 68°F(20°C)
- Average self-discharge rate:
 ≤2% per month 68°F(20°C)
- Maximum discharge current:
 1265A(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: 34.5A
 Temperature compensation: -21mV/°C/piece
 Cycle use: 14.52 V/ piece
 Standby use: 13.74 V/ piece

Dimensions/Terminal



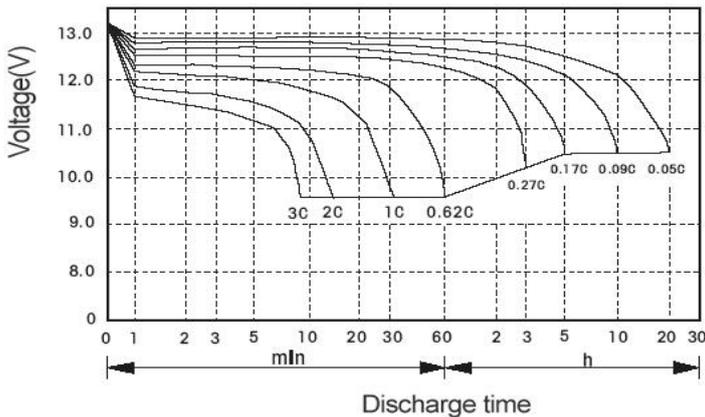
Constant Current Discharge Data (Ampere at 20°C/68 °F)

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h
1.60	300	250	222	145	112	79.3	61.1	48.4	34.7	26.8	22.5	19.2	12.8
1.67	273	230	204	137	105	74.6	58.3	46.3	33.1	25.7	21.5	18.6	12.4
1.70	258	216	193	129	102	71.7	57.2	45.4	32.6	25.3	21.2	18.3	12.1
1.75	242	201	179	121	96.0	69.0	55.5	44.2	31.6	24.7	20.7	17.9	11.9
1.80	223	184	169	118	89.1	65.7	53.4	42.7	30.7	24.1	20.2	17.5	11.5

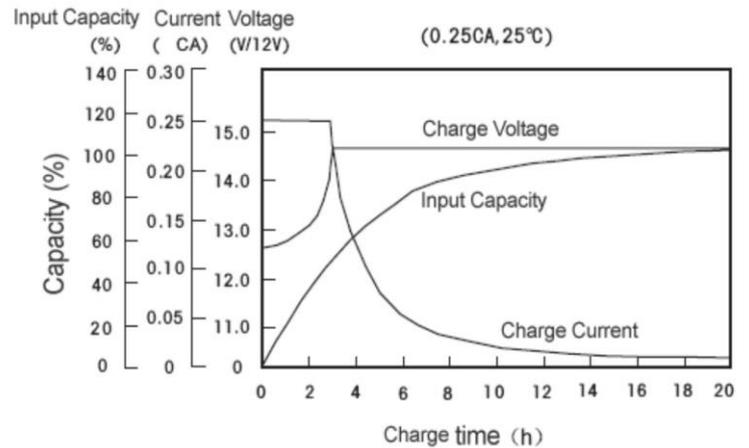
Constant Power Discharge Data (Watts per cell at 20°C/68 °F)

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h
1.60	528	464	392	290	218	160	132	99.5	66.2	57.8	47.0	40.0	26.4
1.67	502	440	372	273	207	153	125	94.2	63.3	55.3	44.6	38.8	25.9
1.70	491	431	363	266	204	149	123	92.6	62.3	54.3	44.0	38.2	25.6
1.75	477	419	349	256	198	144	120	90.7	60.4	52.6	43.0	37.5	25.2
1.80	458	402	337	245	190	139	115	87.6	58.5	51.1	41.9	36.6	24.7

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)