



AGM Technology
ABT Thunder TM...W Series

Complying standards:

IEC60896-21/22:2004

JIS C8702-1/2-2009

TM12-320W

12V75Ah(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	25.5kg	56.1lbs
Type of material for container and lids: ABS Standard (FV0 Optional)		

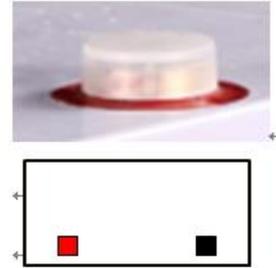
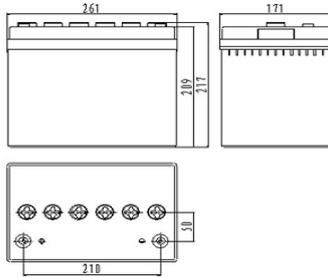
Product Characteristics

- 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 320W per cell
1h rate(46.8 A, 10.2V) 46.8 Ah
10h rate(7.5A, 10.8V) 75Ah
- Internal resistance:
4.45mΩ when fully charged at 68°F(20°C)
- Average self-discharge rate:
≤2% per month 68°F(20°C)
- Maximum discharge current:
900A(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: 22.5A
Temperature compensation: -21mV/°C/piece
Cycle use: 14.52 V/ piece
Standby use: 13.74 V/ piece

Dimensions/Terminal



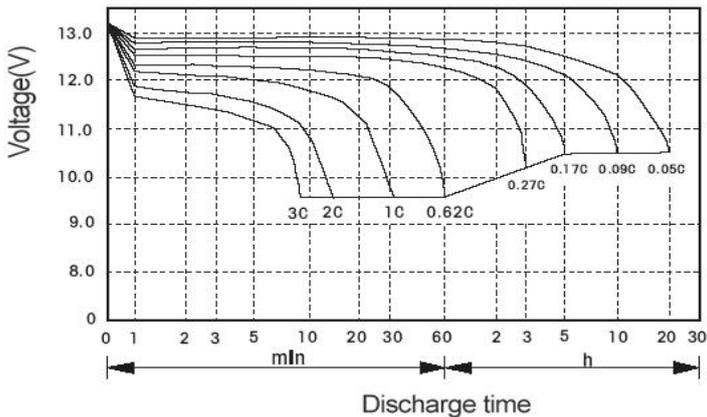
Constant Current Discharge Data (Ampere at 20°C/68 °F)

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h
1.60	195	162	143	98.8	72.1	51.8	39.3	31.1	22.3	17.2	14.5	12.4	8.54
1.67	176	150	131	91.2	67.8	48.7	37.5	29.7	21.3	16.5	13.8	11.9	8.23
1.70	167	141	124	87.7	65.5	46.8	36.8	29.2	20.9	16.3	13.6	11.7	8.07
1.75	157	130	115	82.0	61.9	45.0	35.7	28.4	20.3	15.9	13.3	11.5	7.92
1.80	144	120	109	77.7	57.3	42.8	34.4	27.4	19.7	15.5	13.0	11.3	7.50

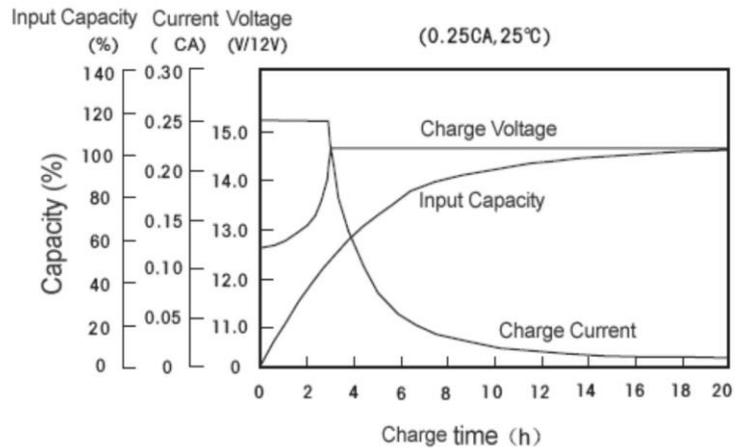
Constant Power Discharge Data (Watts per cell at 20°C/68 °F)

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h
1.60	384	335	288	194	155	113	93.2	71.1	53.1	41.3	33.6	28.6	18.9
1.67	365	320	274	182	148	108	88.4	67.3	50.7	39.5	31.9	27.7	18.5
1.70	357	314	267	178	146	106	86.8	66.1	50.0	38.8	31.4	27.3	18.3
1.75	348	302	257	171	142	102	84.7	64.8	48.5	37.6	30.7	26.8	18.0
1.80	334	290	249	164	136	98.6	81.7	62.6	46.9	36.5	29.9	26.1	17.7

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.

Copy right ABT BV,
 all rights reserved.
 (Edition: Feb.,2021)