



AGM Technology
 ABT Thunder TM...W Series

Complying standards:

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

TM12-500W

12V140Ah(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	483mm	19.02inch
Width	171mm	6.73inch
Height	219mm	8.54inch
Total Height	227mm	8.94inch
Approx. Weight	42.6kg	93.72lbs
Type of material for container and lids: ABS Standard (FV0 Optional)		

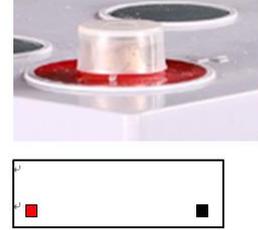
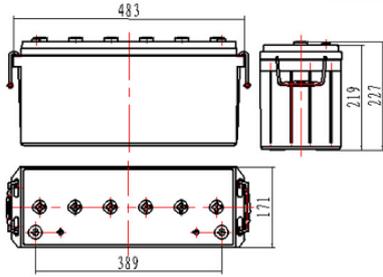
Product Characteristics

- 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 500W per cell
1h rate(82.7, 10.2V) 82.7Ah
10h rate(14.0A, 10.8V) 140Ah
- Internal resistance:
3.2mΩ when fully charged at 68°F(20°C)
- Average self-discharge rate:
≤2% per month 68°F(20°C)
- Maximum discharge current:
1540A(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: 42.0A
Temperature compensation: -21mV/°C/piece
Cycle use: 14.52 V/ piece
Standby use: 13.74 V/ piece

Dimensions/Terminal



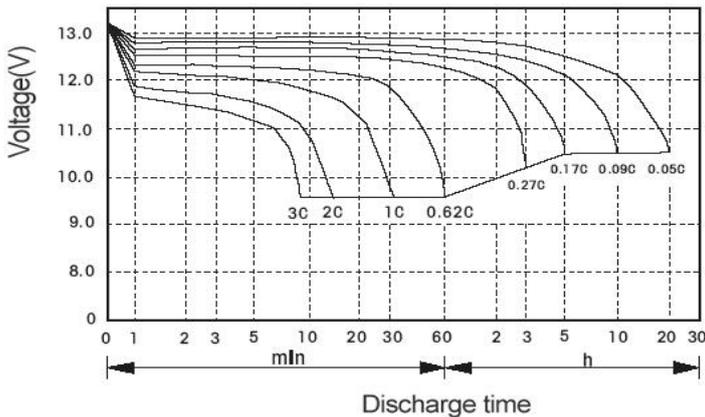
Constant Current Discharge Data (Ampere at 20°C/68 °F)

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h
1.60	347	285	231	162	118	88.8	75.0	57.9	40.3	30.9	25.3	21.6	14.5
1.67	323	266	217	152	112	84.4	71.9	55.7	38.4	29.1	24.6	21.0	14.3
1.70	312	256	211	148	110	82.7	70.6	54.8	37.6	28.9	24.1	20.9	14.2
1.75	294	246	200	142	105	80.0	68.4	53.3	36.5	28.3	24.0	20.6	14.1
1.80	274	231	189	134	101	77.0	65.9	51.6	35.0	27.4	23.3	20.3	14.0

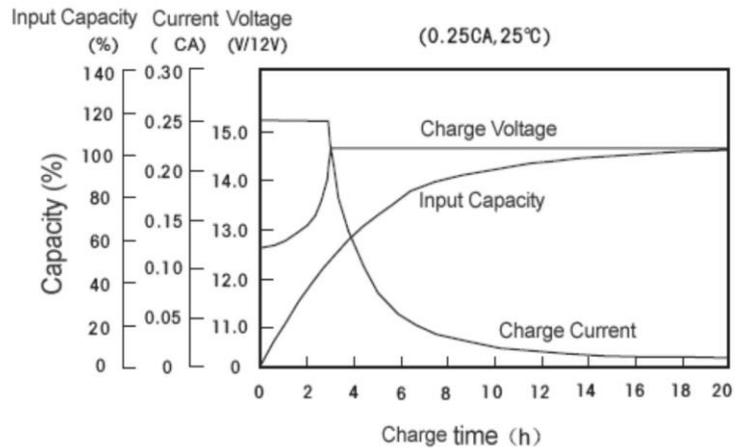
Constant Power Discharge Data (Watts per cell at 20°C/68 °F)

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h
1.60	600	535	435	312	230	193	152	108	78.9	62.8	53.5	46.9	29.4
1.67	553	500	407	301	220	184	142	103	75.0	60.9	51.3	45.0	28.5
1.70	532	489	392	293	217	181	140	102	73.4	60.1	50.8	44.6	28.2
1.75	511	467	377	285	212	175	136	100	72.1	59.4	49.9	43.6	27.8
1.80	486	446	362	274	205	167	132	97	70.8	58.0	48.4	42.5	26.9

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)