



AGM Technology
 ABT Thunder TM...W Series

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

TM12-570W

12V145Ah(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	45.6kg	100.32lbs
Type of material for container and lids: ABS Standard (FV0 Optional)		

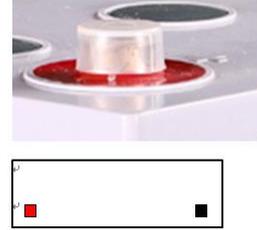
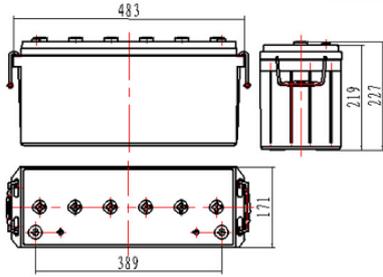
Product Characteristics

- 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 570W per cell
1h rate(90.5A, 10.2V) 90.5Ah
10h rate(14.5A, 10.8V) 145Ah
- Internal resistance:
2.75mΩ when fully charged at 68°F(20°C)
- Average self-discharge rate:
≤2% per month 68°F(20°C)
- Maximum discharge current:
1650A(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: 43.5A
Temperature compensation: -21mV/°C/piece
Cycle use: 14.52 V/ piece
Standby use: 13.74 V/ piece

Dimensions/Terminal



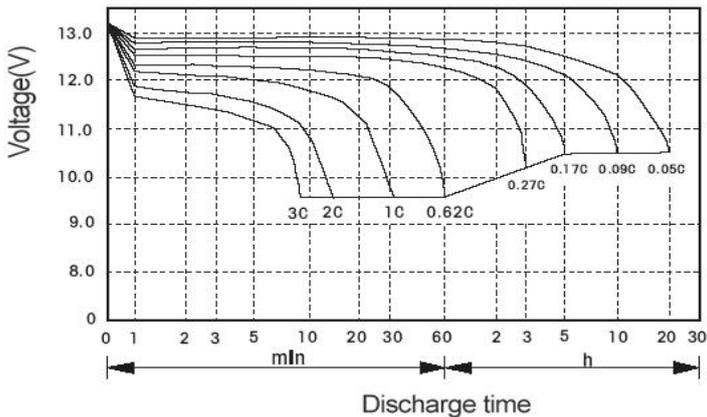
Constant Current Discharge Data (Ampere at 20°C/68 °F)

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h
1.60	361	311	265	176	137	97.5	78.5	60.5	42.0	34.8	28.4	24.3	15.1
1.67	342	290	249	165	130	92.5	75.1	58.2	40.0	32.8	27.6	23.7	14.9
1.70	333	279	242	161	127	90.5	73.9	57.4	39.1	32.5	27.2	23.5	14.8
1.75	314	268	230	153	122	87.0	71.6	55.8	38.0	31.9	27.0	23.2	14.6
1.80	287	239	217	146	117	83.1	69.0	54.0	36.4	30.8	26.2	22.8	14.5

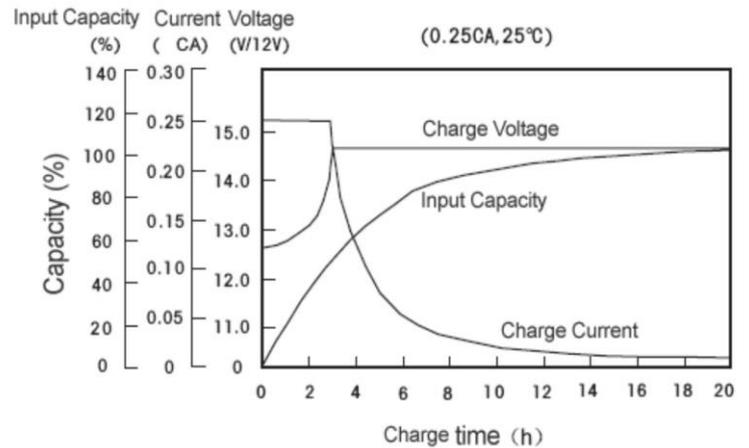
Constant Power Discharge Data (Watts per cell at 20°C/68 °F)

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h
1.60	656	582	479	344	269	195	151	114	79.4	67.9	57.9	50.7	31.8
1.67	618	570	449	335	258	192	142	109	75.4	65.8	55.5	48.7	30.9
1.70	589	550	432	327	253	189	139	108	73.8	65.0	54.9	48.3	30.6
1.75	565	525	416	318	248	183	135	105	72.5	64.2	54.0	47.2	30.0
1.80	532	480	399	293	241	166	132	102	71.2	62.7	52.3	46.0	29.1

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)