



AGM Technology
 ABT Thunder TM...W Series

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

TM12-800W

12V230Ah(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	534mm	21.02inch
Width	271mm	10.67inch
Height	225mm	8.86inch
Total Height	233mm	9.17inch
Approx. Weight	76.6kg	168.52lbs
Type of material for container and lids: ABS Standard (FV0 Optional)		

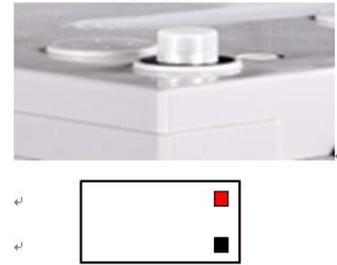
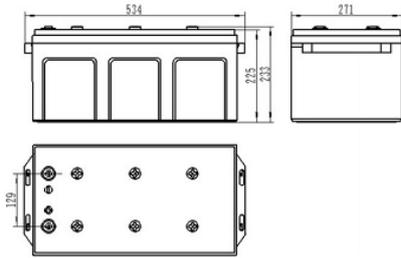
Product Characteristics

- 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 800W per cell
1h rate(143.0A, 10.2V) 143Ah
10h rate(23.0A, 10.8V) 230Ah
- Internal resistance:
2.0mΩ when fully charged at 68°F (20°C)
- Average self-discharge rate:
≤2% per month 68°F (20°C)
- Maximum discharge current:
2220A(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: 69.0A
Temperature compensation: -21mV/°C/piece
Cycle use: 14.52 V/ piece
Standby use: 13.74 V/ piece

Dimensions/Terminal



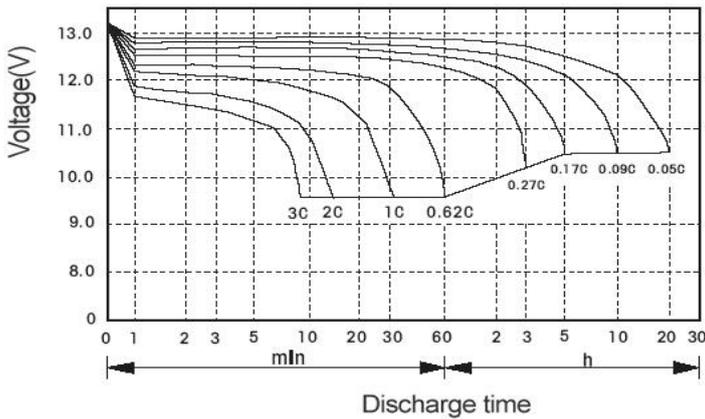
Constant Current Discharge Data (Ampere at 20°C/68 °F)

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h
1.60	583	488	396	274	205	153	121	95.0	68.4	52.5	42.9	36.6	23.9
1.67	542	455	372	257	194	146	116	91.3	65.1	49.4	41.7	35.7	23.6
1.70	524	439	361	251	190	143	114	89.9	63.8	49.0	41.0	35.5	23.5
1.75	493	421	343	238	182	138	110	87.4	61.9	48.1	40.7	35.0	23.2
1.80	460	396	323	227	174	132	106	84.6	59.4	46.5	39.6	34.5	23.0

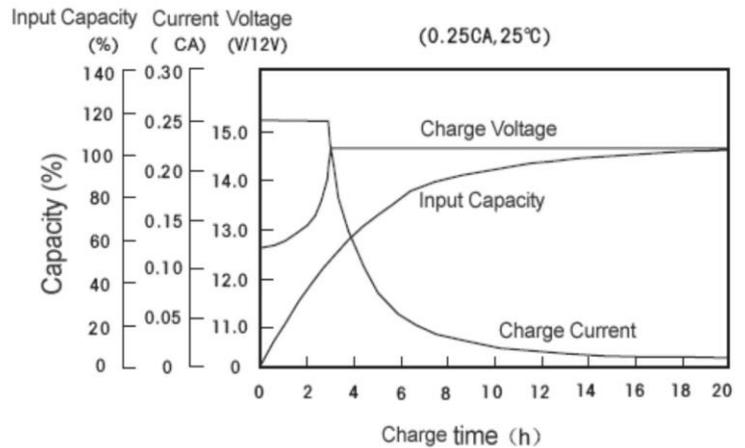
Constant Power Discharge Data (Watts per cell at 20°C/68 °F)

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h
1.60	960	858	738	517	410	323	260	197	135	108.0	91.5	80.4	50.5
1.67	886	800	691	496	394	309	244	188	129	104.0	87.7	77.2	49.0
1.70	852	786	666	486	386	302	240	185	126	103.0	86.8	76.6	48.5
1.75	817	750	641	472	380	294	233	182	124	102.0	85.9	74.8	47.6
1.80	779	715	614	448	370	281	227	176	122	100.0	83.0	72.9	46.1

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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