



AGM Technology
 ABT Thunder TM...W Series

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

TM12-870W

12V250Ah(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	79.4kg	174.68lbs
Type of material for container and lids: ABS Standard (FV0 Optional)		

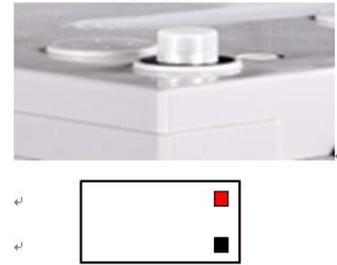
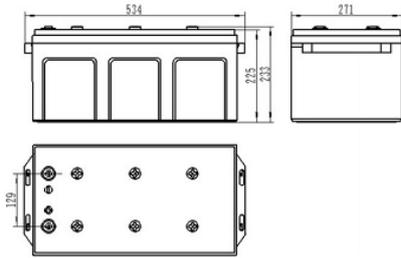
Product Characteristics

- 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 870W per cell
1h rate(155.0A, 10.2V) 155Ah
10h rate(25.0A, 10.8V) 250Ah
- Internal resistance:
1.95mΩ when fully charged at 68°F (20°C)
- Average self-discharge rate:
≤2% per month 68°F (20°C)
- Maximum discharge current:
2500A(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: 75.0A
Temperature compensation: -21mV/°C/piece
Cycle use: 14.52 V/ piece
Standby use: 13.74 V/ piece

Dimensions/Terminal



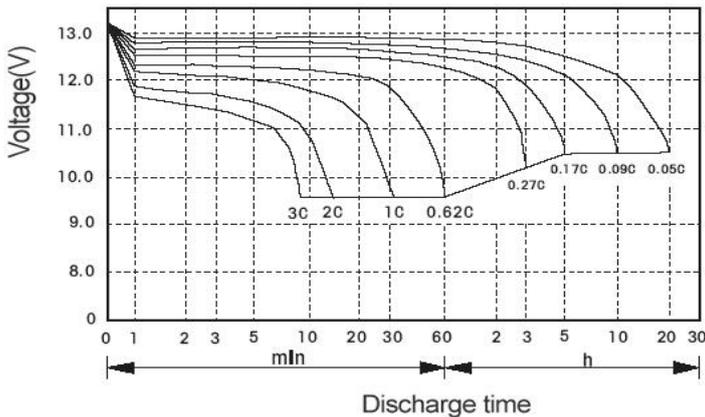
Constant Current Discharge Data (Ampere at 20°C/68 °F)

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h
1.60	578	500	424	290	219	167	126	98	73.3	56.2	45.9	39.2	26.0
1.67	534	488	398	272	208	158	122	94	69.8	53.0	44.7	38.3	25.6
1.70	508	470	387	266	204	155	119	93	68.4	52.5	43.9	38.0	25.5
1.75	475	451	368	254	195	150	115	90.2	66.4	51.5	43.6	37.5	25.1
1.80	439	398	346	241	186	143	112	87.3	63.7	49.8	42.4	36.9	25.0

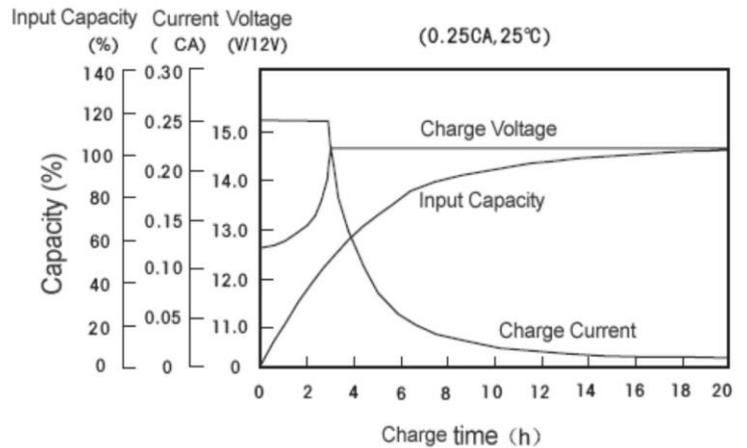
Constant Power Discharge Data (Watts per cell at 20°C/68 °F)

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h
1.60	1045	900	791	561	450	324	253	189	145	115	98.0	86.2	54.1
1.67	969	870	741	539	432	320	249	179	138	112	94.0	82.8	52.5
1.70	941	853	714	527	424	314	244	177	135	110	93.0	82.1	51.9
1.75	888	814	687	511	415	304	238	174	133	109	92.0	80.2	51.1
1.80	836	760	658	468	392	270	219	169	130	107	88.9	78.1	49.4

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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