



AGM Technology
 ABT Thunder TM...W Series

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

TM12-215W

12V55Ah(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	228mm	8.98inch
Width	138mm	5.43inch
Height	209mm	8.23inch
Total Height	214mm	8.43inch
Approx. Weight	17.2kg	37.84lbs
Type of material for container and lids: ABS Standard (FV0 Optional)		

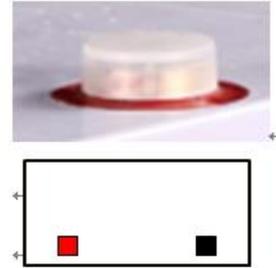
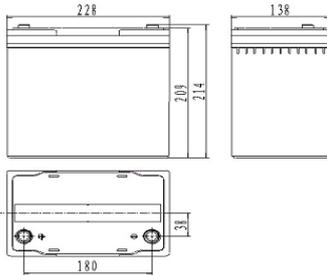
Product Characteristics

- 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 215W per cell
1h rate(34.3A, 10.2V) 34.3Ah
10h rate(5.5A, 10.8V) 55Ah
- Internal resistance:
6.4mΩ when fully charged at 68°F(20°C)
- Average self-discharge rate:
≤2% per month 68°F(20°C)
- Maximum discharge current:
660A(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: 16.5A
Temperature compensation: -21mV/°C/piece
Cycle use: 14.52 V/ piece
Standby use: 13.74 V/ piece

Dimensions/Terminal



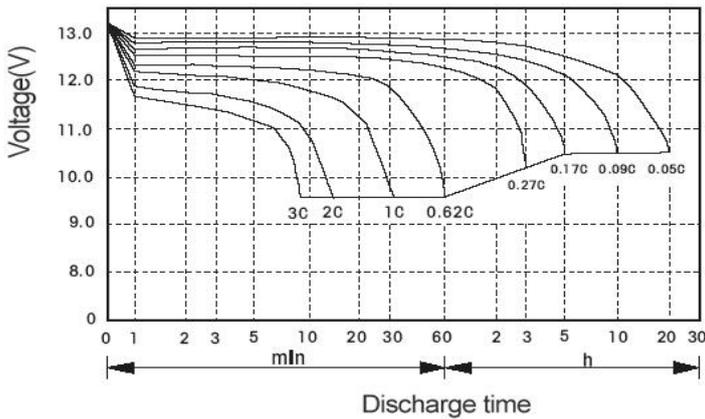
Constant Current Discharge Data (Ampere at 20°C/68 °F)

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h
1.60	143	119	100.7	69.8	51.9	38.1	27.7	21.9	16.4	12.9	11.0	9.48	6.12
1.67	134	110	93.7	65.3	48.3	35.3	25.9	20.6	15.6	12.4	10.6	9.11	5.88
1.70	130	107	91.3	63.5	47.3	34.3	25.3	20.2	15.3	12.2	10.4	8.99	5.80
1.75	122	101	87.1	60.0	46.3	33.0	24.1	19.3	14.8	11.8	10.1	8.74	5.64
1.80	112	97	83.0	56.6	43.8	30.9	23.0	18.5	14.3	11.3	9.68	8.52	5.50

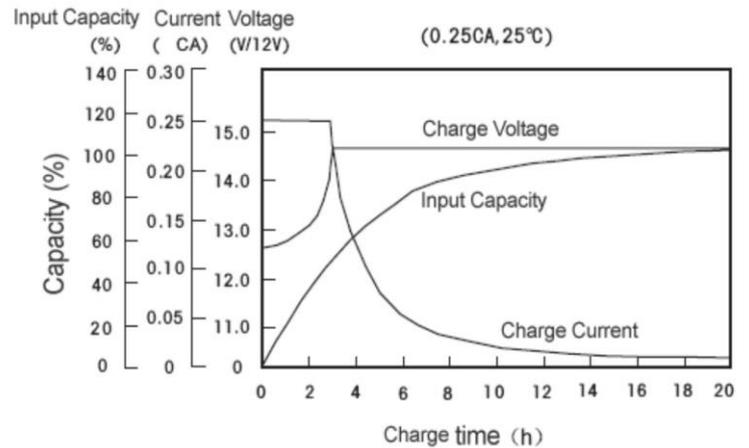
Constant Power Discharge Data (Watts per cell at 20°C/68 °F)

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h
1.60	260	226	179	125	96.8	78.4	61.3	46.6	33.8	26.5	21.8	18.9	12.4
1.67	248	215	170	120	92.1	75.2	59.0	44.6	32.4	25.7	21.1	18.3	12.1
1.70	236	209	166	118	90.9	74.1	57.9	43.8	31.5	25.4	20.7	18.1	11.9
1.75	225	202	160	114	87.9	72.0	55.9	42.5	30.8	24.8	20.2	17.7	11.6
1.80	212	194	155	110	85.1	69.8	53.9	41.0	29.6	24.2	19.6	17.4	11.4

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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