



AGM Technology
 ABT Thunder TM...W Series

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

TM12-490W

12V135Ah(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	345mm	13.58inch
Width	172mm	6.77inch
Height	275mm	10.83inch
Total Height	282mm	11.10inch
Approx. Weight	42.5kg	93.5lbs
Type of material for container and lids: ABS Standard (FV0 Optional)		

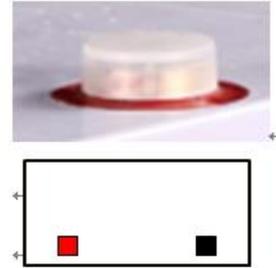
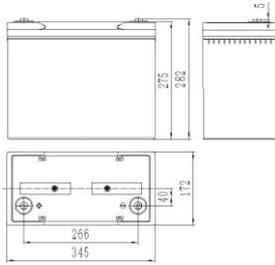
Product Characteristics

- 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 490W per cell
1h rate(83.5A, 10.2V) 83.5Ah
10h rate(13.5A, 10.8V) 135Ah
- Internal resistance:
3.6mΩ when fully charged at 68°F (20°C)
- Average self-discharge rate:
≤2% per month 68°F (20°C)
- Maximum discharge current:
1485A(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: 40.5A
Temperature compensation: -21mV/°C/piece
Cycle use: 14.52 V/ piece
Standby use: 13.74 V/ piece

Dimensions/Terminal



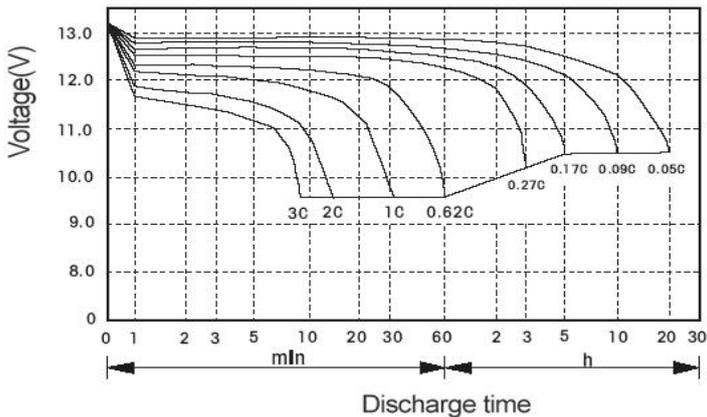
Constant Current Discharge Data (Ampere at 20°C/68 °F)

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h
1.60	340	279	226	158	116	89.7	73.5	55.6	39.5	30.3	24.8	21.1	14.1
1.67	316	260	213	148	110	85.2	70.4	53.4	37.6	28.5	24.1	20.6	13.9
1.70	306	251	207	144	108	83.5	69.2	52.6	36.9	28.3	23.7	20.5	13.8
1.75	288	241	196	139	103	81.0	67.1	51.3	35.8	27.7	23.5	20.2	13.6
1.80	268	226	185	131	98.5	77.7	64.6	49.6	34.3	26.9	22.8	19.9	13.5

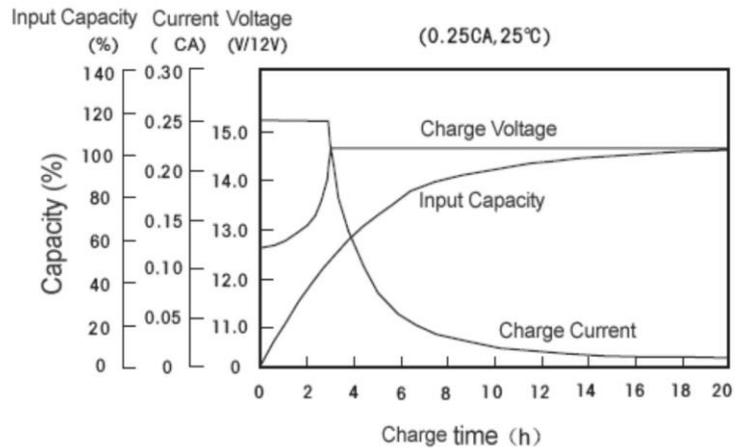
Constant Power Discharge Data (Watts per cell at 20°C/68 °F)

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h
1.60	588	524	426	316	237	190	149	106	77.3	61.5	52.4	45.9	28.8
1.67	542	490	399	304	227	180	140	101	73.5	59.6	50.3	44.1	27.8
1.70	522	474	384	296	223	177	137	100	71.9	58.9	49.8	43.7	27.4
1.75	500	457	370	288	219	172	133	98	70.7	58.2	48.9	42.7	26.9
1.80	476	437	354	277	212	165	130	95	69.4	56.8	47.4	41.6	26.1

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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