



AGM Technology
 ABT Thunder TM...W Series

Complying standards:

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

TM12-340W

12V90Ah(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	306mm	12.05inch
Width	171mm	6.73inch
Height	209mm	8.23inch
Total Height	217mm	8.54inch
Approx. Weight	27.4kg	60.28lbs
Type of material for container and lids: ABS Standard (FV0 Optional)		

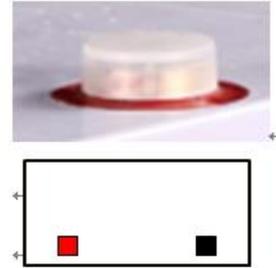
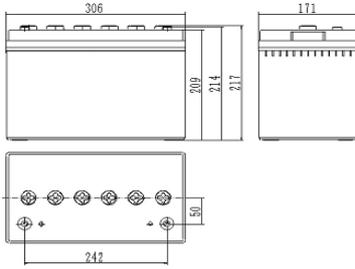
Product Characteristics

- 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 340W per cell
 1h rate(56.1A, 10.2V) 56.1Ah
 10h rate(9.0A, 10.8V) 90Ah
- Internal resistance:
 4.9mΩ when fully charged at 68°F (20°C)
- Average self-discharge rate:
 ≤2% per month 68°F (20°C)
- Maximum discharge current:
 1080A(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: 27.0A
 Temperature compensation: -21mV/°C/piece
 Cycle use: 14.52 V/ piece
 Standby use: 13.74 V/ piece

Dimensions/Terminal



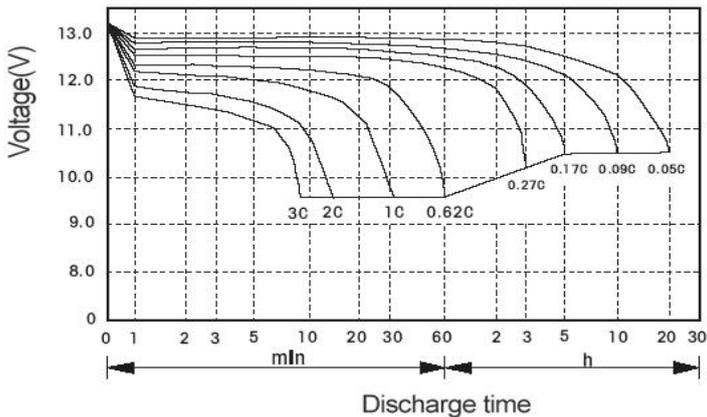
Constant Current Discharge Data (Ampere at 20°C/68 °F)

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h
1.60	235	198	165	116	83.3	62.2	45.8	36.3	26.2	20.1	16.9	14.4	9.90
1.67	214	182	152	108	78.4	58.4	43.7	34.7	25.1	19.3	16.1	13.9	9.54
1.70	201	171	143	104	75.7	56.1	42.9	34.1	24.6	19.0	15.9	13.7	9.36
1.75	189	159	133	97	71.5	54.0	41.7	33.1	23.9	18.5	15.5	13.4	9.18
1.80	175	146	126	91.7	66.2	51.4	40.1	32.0	23.2	18.1	15.2	13.2	9.00

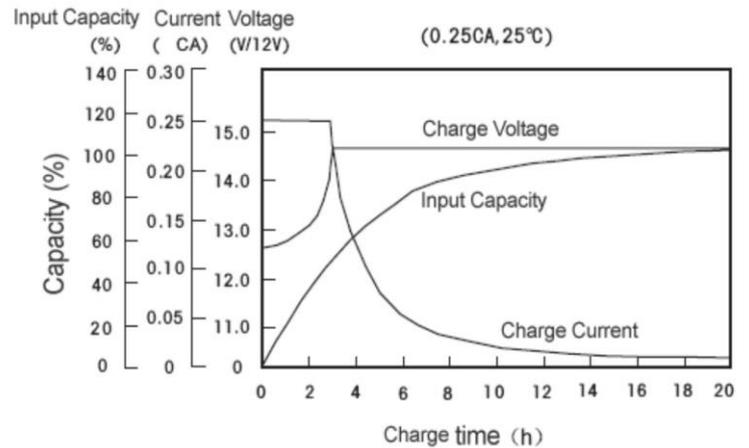
Constant Power Discharge Data (Watts per cell at 20°C/68 °F)

End Volt	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h
1.60	408	352	297	210	162	128	96.9	73.2	54.7	42.5	34.6	29.5	19.4
1.67	388	340	282	197	154	122	91.9	69.3	52.2	40.7	32.8	28.6	19.1
1.70	380	330	275	192	152	119	90.3	68.1	51.5	40.0	32.4	28.1	18.8
1.75	369	318	264	185	147	116	88.1	66.7	49.9	38.7	31.7	27.6	18.5
1.80	354	305	256	178	141	111	84.9	64.4	48.4	37.6	30.8	26.9	18.2

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.

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