

TM6-1000W

6V 200Ah(20hr)

High Rate Discharge

The ABT Thunder TM...W VRLA are batteries according to Eurobat Classification and specially designed for applications which need high power backup.

Thunder TM...W is the premium plus VRLA battery for UPS and diesel start application.

Mechanical Characteristics

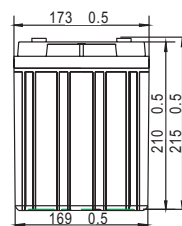
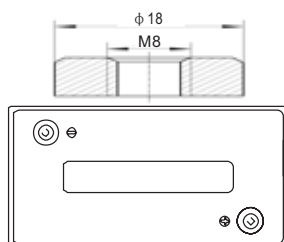
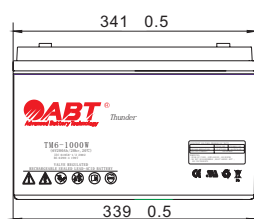
	SI Units	English Units
Length	341mm	13.43inch
Width	173mm	6.81inch
Height	210mm	8.27inch
Total Height	215mm	8.47inch
Approx Weight	33.97kg.	74.90lbs

Type of material for box and lids :
ABS Standard (FV0 Optional)

Product Characteristics

- Positive and negative grids in lead-calcium tin alloy
- Superior energy density
- More than 40% power output than ABT standard SGP series
- Operates at a low internal pressure
- Usable in any orientation
- A recognized component of UL
- Range of 6V and 12V monobloc from 160W to 1000W per cell for 10' @ 1.60Vpc
- 6 months shelf life at 20°C
- 10 years design life

Dimensions / Terminal



Performance Characteristics

Nominal Voltage	6V
Number of cell	3
Nominal Capacity 68°F(20°C)	10 min wattage@1.60V 1000W per cell 1 hour rate (134.0A, 1.60V per cell) 134.0Ah 10 hour rate (18.60A, 1.75V per cell) 186.0Ah 20 hour rate (10.0A, 1.75V per cell) 200Ah
Internal Resistance	Fully Charged battery 68°F(20°C) 1.22 mOhms
Mass Energy(Wh/kgs)	35.33
Volumic energy(Wh/dm ³)	94.61
Self-Discharge	3% of capacity declined per month at 20°C(average)
Operating Temperature Range	Discharge -20~60°C Charge -10~60°C Storage -20~60°C
Max. Discharge Current	1260A(5 s)
Short circuit current	4795A
Charge Methods:	Constant Voltage Charge 68°F(20°C) Cycle use 7.2-7.5V/unit Temperature compensation -30mV/°C/unit Standby use 6.75-6.9V/unit Temperature compensation -20mV/°C/unit Maximum charging current 60A of rated capacity
Terminal Type	Inserted Thread and bolt M8X φ 18
Torque strength in Nm	12~16
Handle Type	Incorporated
Flame arrestor	Yes

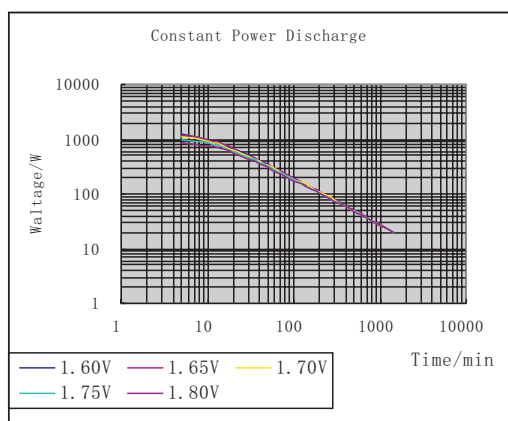
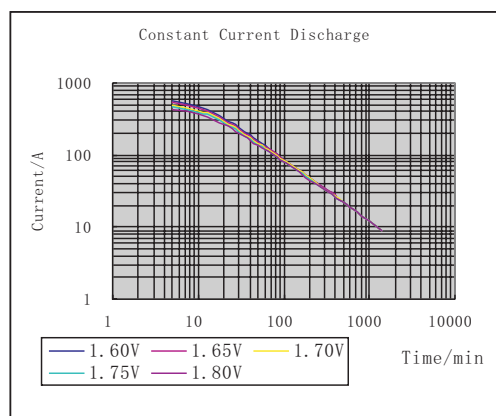
Constant Current Discharge Data (Amperes at 20°C)

End Volt. Per Cell	5min	10min	15min	20min	25min	30min	35min	40min	45min	50min	1h	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	12h	24h
1.60V	609	470	389	320	272	235	207	186	169	155	134	97.3	75.9	62.4	51.4	42.3	35.0	30.0	26.2	23.5	21.30	19.23	16.70	9.20
1.65V	567	450	369	308	263	228	201	181	165	151	131	94.1	74.0	61.5	50.5	41.7	34.7	29.7	26.0	23.3	21.04	19.02	16.51	9.12
1.70V	532	428	348	295	254	221	195	177	161	147	126	90.9	72.1	60.1	49.5	41.1	34.3	29.4	25.7	23.0	20.81	18.84	16.37	9.07
1.75V	491	399	332	280	243	215	191	173	157	143	122	88.3	70.3	58.8	48.7	40.5	33.9	29.1	25.6	22.8	20.52	18.60	16.22	8.99
1.80V	449	370	313	267	233	207	185	168	153	140	120	85.7	68.4	57.5	47.8	39.8	33.4	28.8	25.3	22.5	20.29	18.34	16.07	8.94

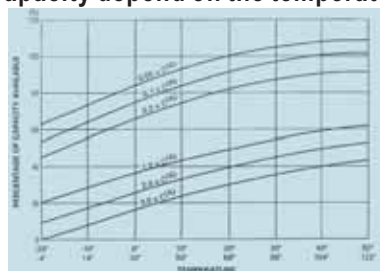
Constant Power Discharge Data (Watts per cell at 20°C)

End Volt. Per Cell	5min	10min	15min	20min	25min	30min	35min	40min	45min	50min	1h	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	12h	24h
1.60V	1240.8	1000.0	809.6	674	573.8	504.4	452	408.6	372.0	338.1	295.4	215.9	167.9	138.8	114.48	93.6	77.71	66.44	58.27	51.99	46.67	42.15	36.55	19.36
1.65V	1171.1	957.5	777.0	647.4	553.2	488.2	439.3	399.2	363.7	331.8	288.0	210.4	163.9	135.6	111.75	92.25	76.81	65.69	57.66	51.51	46.18	41.76	36.06	18.96
1.70V	1101.0	917.4	744.3	620.6	533.1	472.4	427.1	389.3	355.0	323.9	280.6	203.7	160.8	132.5	109.10	91.06	75.83	64.86	57.03	50.95	45.79	41.47	35.77	18.57
1.75V	1036.3	861.4	704.9	593.4	513.8	458.3	417.7	379.0	346.0	315.2	273.1	197.8	157.2	128.87	106.58	89.39	74.59	64.04	56.47	50.46	45.40	41.07	35.37	17.98
1.80V	968.1	807.0	669.5	571.3	494.5	444.9	405.9	367.2	335.3	303.7	264.1	192.2	153.1	125.31	104.41	87.90	73.35	63.23	55.75	49.96	44.90	40.78	35.08	17.69

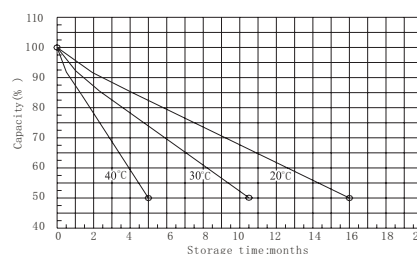
Performance drawing



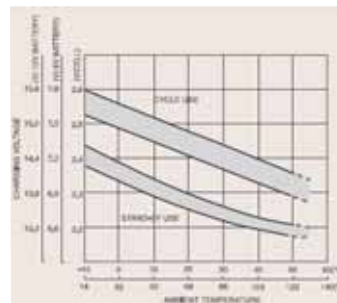
Capacity depend on the temperature



Capacity Retention Characteristic



Charge voltage depend on the temperature



Contact information

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ABT VRLA Battery: Available Power Range From 7Ah to 3000Ah

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