

AGM TECHNOLOGY
ABT Enduro EHP Series

EHP12-23

12V 23Ah(10hr)

Complying standards:

IEC60896-21/22 2004
JIS C8704-1 1999
BS-6290:4-1997
JIS C8702-1/2 2003
IEC61427:1999
BS EN 61427:2002



High Performance

The ABT Enduro EHP range of VRLA lead acid batteries have been designed specifically for use in applications which demand the highest levels of security and reliability. With proven compliance to the most rigorous international standards.

Enduro EHP is recognized as premium battery for Telecom/IT, Power Utilities applications. Enduro's reputation for long service life combined with excellent high rate performance also makes it the number one choice for high integrity, high specification UPS systems.

Mechanical Characteristics

	SI Unit	English Unit
Length	166mm	6.54inch
Width	125mm	4.92inch
Height	175mm	6.89inch
Total Height	175mm	6.89inch
Approx. Weight	9.76Kg	21.52lbs
Type of material for box and lids : ABS Standard (FV0 Optional)		

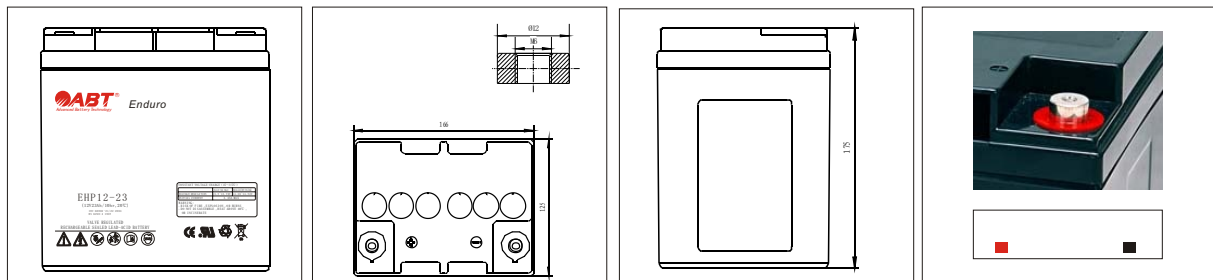
Product Characteristics

- Thick Pb-Ca-Sn alloy grids designed to resist corrosion and prolong life
- Low resistance microporous glass fibre separator
- Low specific acid density
- High integrity pillar seal
- Maintenance-Free Operation
- Low Pressure Venting System
- Low Self Discharge
- U. L. Components Recognition
- Six months shelf life at 20°C
- Design life 12+ years

Performance Characteristics

Nominal Voltage	12V
Number of Cell	6
Nominal Capacity 20°C (68°F)	10 hour rate (2.3A, 10.8V) 23Ah 8 hour rate (2.8A, 10.5V) 22.4Ah 1 hour rate (15.1A, 10.5V) 15.1Ah
Intensity	
Max. Discharge Current	20°C (68°F)500A(5s)
Short circuit current	1330A
Maximum charge current	4.6A(20% of rated capacity)
Internal Resistance	Fully Charged battery 20°C (68°F) 9.35mOhms
Mass Energy(Wh/kg)	28.28
Volumic Energy(Wh/L)	76.01
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
Charge Methods:	Constant Voltage Charge 20°C (68°F) Cycle use 14.04-14.28V Temperature compensation -24mV/°C Standby use 13.44-13.68V Temperature compensation -21mV/°C
Terminal Type	Inserted Thread and bolt M6X φ 12
Torque strength in Nm	12~16
Handle Type	Incorporated
Flame arrester	Yes

Dimensions / Terminal



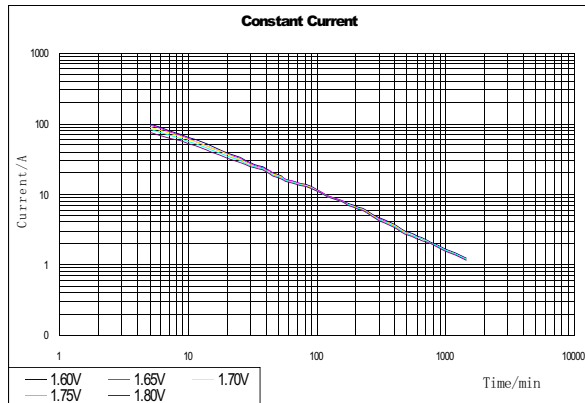
Constant Current Discharge Data (Amperes at 20°C / 68°F)

End Volt. Per Cell	5min	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	1h	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	12h	24h
1.60V	85.0	64.0	48.0	38.6	33.3	28.0	25.3	22.7	20.0	18.6	17.2	15.8	12.7	9.60	8.40	7.20	5.90	4.60	4.07	3.53	3.00	2.75	2.50	2.21	1.25
1.65V	81.0	62.0	46.0	37.6	32.5	27.3	24.8	22.3	19.8	18.4	17.0	15.6	12.6	9.50	8.30	7.10	5.80	4.50	3.97	3.43	2.90	2.65	2.40	2.12	1.20
1.70V	76.0	60.0	45.0	36.6	31.6	26.6	24.2	21.7	19.3	18.0	16.6	15.3	12.3	9.30	8.15	7.00	5.70	4.40	3.90	3.40	2.90	2.65	2.40	2.12	1.20
1.75V	72.0	56.0	43.0	34.5	30.2	25.8	23.5	21.2	18.9	17.6	16.4	15.1	12.2	9.20	8.05	6.90	5.60	4.30	3.80	3.30	2.80	2.60	2.40	2.12	1.20
1.80V	66.0	52.0	40.0	32.5	28.7	24.8	22.6	20.5	18.3	17.2	16.0	14.9	12.0	9.10	7.95	6.80	5.50	4.20	3.70	3.20	2.70	2.50	2.30	2.03	1.15

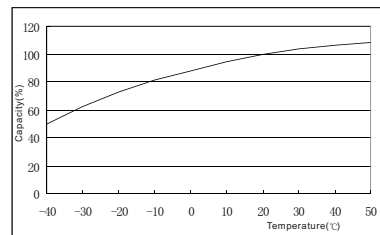
Constant Power Discharge Data (Watts per cell at 20°C / 68°F)

End Volt. Per Cell	5min	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	1h	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	12h	24h
1.60V	144.5	116.0	86.9	70.8	61.6	52.4	47.6	42.8	38.0	35.4	32.9	30.3	24.3	18.2	16.0	13.7	11.3	8.80	7.80	6.80	5.80	5.30	4.80	4.24	2.40
1.65V	139.3	113.3	85.6	70.1	61.0	51.9	47.2	42.5	37.8	35.3	32.7	30.2	24.1	18.0	15.8	13.6	11.2	8.80	7.80	6.80	5.80	5.25	4.70	4.15	2.35
1.70V	134.2	112.0	84.5	68.6	59.7	50.8	46.4	41.9	37.4	34.9	32.5	30.0	23.9	17.8	15.7	13.5	11.1	8.67	7.68	6.69	5.70	5.20	4.70	4.15	2.35
1.75V	129.8	105.8	81.5	66.8	58.2	49.6	45.4	41.1	36.9	34.5	32.2	29.8	23.7	17.7	15.5	13.3	10.9	8.50	7.50	6.50	5.50	5.10	4.70	4.15	2.35
1.80V	122.1	99.5	76.6	63.2	55.5	47.8	43.9	40.0	36.1	33.8	31.6	29.3	23.3	17.3	15.2	13.0	10.7	8.33	7.32	6.31	5.30	4.90	4.50	3.98	2.25

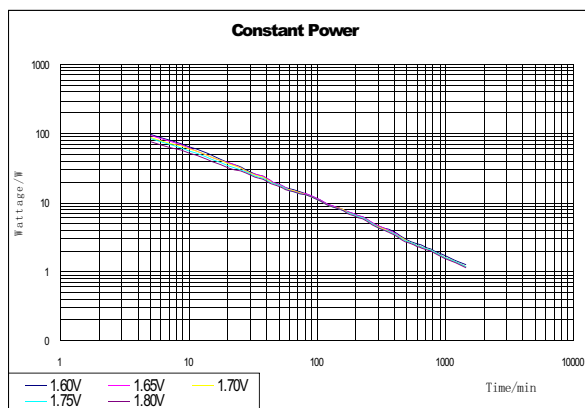
Constant Current Discharge Curve



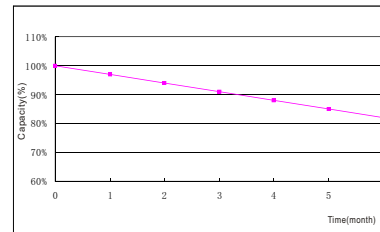
Capacity Vs Temperature



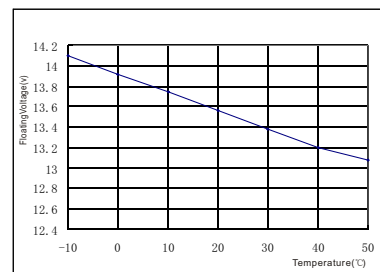
Constant Power Discharge Curve



Self Discharge



Floating Charge Voltage Vs Temperature



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ABT VRLA Battery: Available Power Range From 1Ah to 3000Ah

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