

Complying standards:
IEC 61056-1/2-2002
JIS C8702-1/2-2009

AGM TECHNOLOGY
ABT Enduro EHP Series



EHP12-45

12V 45Ah(10hr)

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	228mm	8.98inch
Width	138mm	5.43inch
Height	208mm	8.19inch
Total Height	213mm	8.39inch
Approx. Weight	18.5Kg	40.79lbs
Type of material for box and lids : ABS Standard (FV0 Optional)		

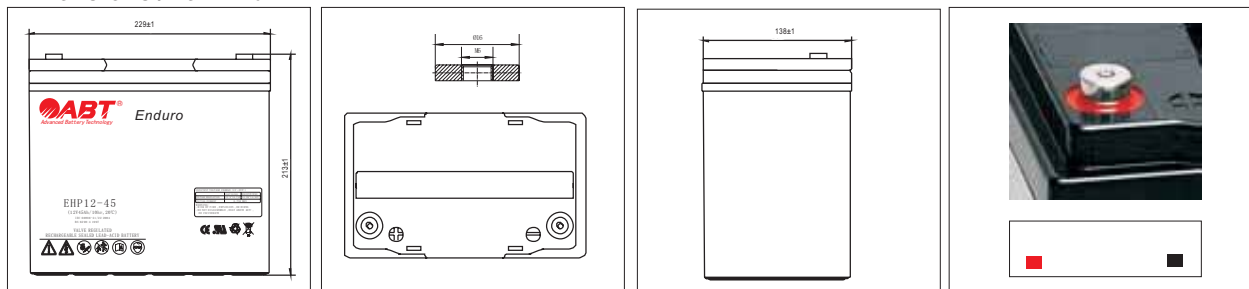
Product Characteristics

- 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 (4.5A, 10.8V) 45.0Ah 8 hour rate (5.4A, 10.5V) 43.2Ah 1 hour rate (27.5A, 10.5V) 27.5Ah
Intensity	
Max. Discharge Current	20°C (68°F) 585A(5s)
Short circuit current	2285A
Maximum charge current	9A(20% of rated capacity)
Internal Resistance	Fully Charged battery 20°C (68°F) 5.25mOhms
Mass Energy(Wh/kg)	29.19
Volumic Energy(Wh/L)	82.15
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/unit Standby use 13.44-13.68V Temperature compensation -21mV/°C/unit
Terminal Type	Inserted Thread and bolt M6X φ 16
Torque strength in Nm	12~16
Handle Type	Incorporated
Flame arrester	Yes

Dimensions / Terminal



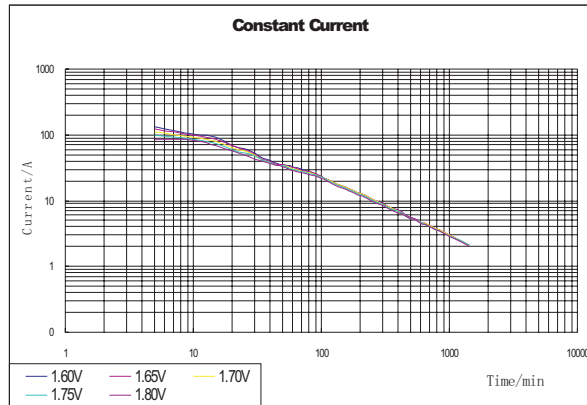
Constant Current Discharge Data (Amperes at 20°C/68°F)

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	137.0	106.9	90.9	73.4	62.1	53.1	45.9	41.1	37.0	34.3	32.0	29.3	25.2	20.6	17.0	14.1	11.5	9.3	7.64	6.56	5.63	5.02	4.69	4.08	2.14
1.65V	123.0	102.3	84.6	68.1	59.1	50.7	44.6	39.9	36.3	33.6	31.6	28.6	24.7	20.1	16.6	13.7	11.2	9.1	7.48	6.43	5.55	4.96	4.64	4.03	2.11
1.70V	112.1	95.3	78.8	64.7	55.5	48.4	43.0	38.9	35.4	32.9	30.6	28.1	24.1	19.6	16.2	13.4	11.0	8.9	7.33	6.31	5.49	4.90	4.59	3.98	2.09
1.75V	104.0	88.0	73.2	60.5	52.7	46.5	41.2	37.8	34.5	32.0	29.9	27.5	23.5	19.1	15.7	13.1	10.7	8.7	7.20	6.19	5.40	4.85	4.54	3.93	2.07
1.80V	94.0	81.0	69.1	57.0	50.1	44.6	39.9	36.8	33.7	31.2	28.9	26.7	23.1	18.4	15.3	12.8	10.4	8.5	7.03	6.06	5.30	4.77	4.50	3.88	2.05

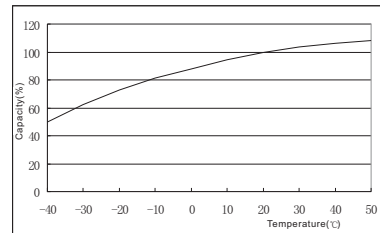
Constant Power Discharge Data (Watts per cell at 20°C/68°F)

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	233.4	192.0	160.5	131.3	110.1	93.8	82.3	73.9	68.6	64.7	61.7	59.1	41.7	33.4	27.2	22.2	18.6	15.8	13.73	11.88	10.78	9.64	8.90	7.77	4.02
1.65V	214.3	181.9	151.2	125.0	106.0	91.2	80.6	72.4	67.7	63.9	61.1	58.6	40.8	32.8	26.7	21.9	18.4	15.6	13.60	11.80	10.70	9.58	8.86	7.74	3.99
1.70V	200.4	172.9	143.1	118.4	101.8	89.2	78.9	71.2	66.8	63.1	60.5	58.0	39.8	32.1	26.3	21.5	18.1	15.4	13.50	11.70	10.63	9.55	8.82	7.70	3.95
1.75V	187.5	163.7	135.5	112.3	99.1	87.3	77.0	69.9	65.8	62.3	59.9	57.4	38.7	31.4	25.8	21.1	17.9	15.3	13.35	11.61	10.56	9.50	8.78	7.66	3.91
1.80V	176.1	152.8	128.8	108.4	96.1	85.2	75.4	68.7	64.6	61.4	59.2	56.8	37.4	30.6	25.1	20.7	17.7	15.1	13.20	11.52	10.50	9.45	8.73	7.62	3.87

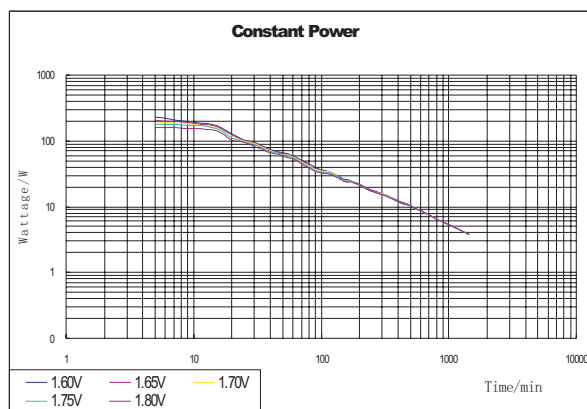
Constant Current Discharge Curve



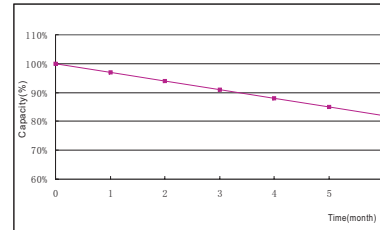
Capacity Vs Temperature



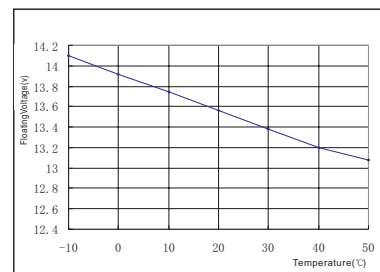
Constant Power Discharge Curve



Self Discharge



Floating Charge Voltage Vs Temperature



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

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