

AGM TECHNOLOGY
ABT Enduro EHP Series

EHP12-32

12V 32Ah(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	197mm	7.76inch
Width	165mm	6.50inch
Height	170mm	6.69inch
Total Height	170mm	6.69inch
Approx. Weight	14.0Kg	30.86lbs
Type of material for box and lids : ABS Standard (FV0 Optional)		

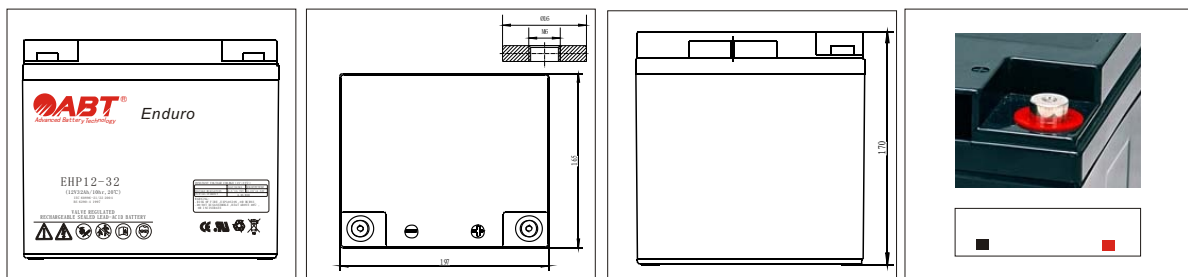
Product Characteristics

- 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 (3.2A, 10.8V) 32Ah 8 hour rate (3.8A, 10.5V) 30.4Ah 1 hour rate (20.5A, 10.5V) 20.5Ah
Intensity	
Max. Discharge Current	20°C (68°F) 500A(5s)
Short circuit current	1750A
Maximum charge current	6.4A(20% of rated capacity)
Internal Resistance	Fully Charged battery 20°C (68°F) 7.14mOhms
Mass Energy(Wh/kg)	27.43
Volumic Energy(Wh/L)	69.49
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 16
Torque strength in Nm	12~16
Handle Type	Incorporated
Flame arrester	Yes

Dimensions / Terminal



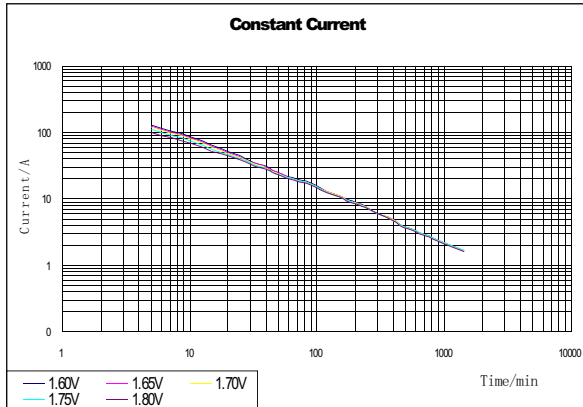
Constant Current Discharge Data (Amperes at 20°C/68°F)

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	115.2	85.0	65.0	51.0	44.3	37.5	34.0	30.5	27.0	25.1	23.3	21.4	17.2	12.9	11.2	9.50	7.80	6.10	5.37	4.63	3.90	3.60	3.30	2.92	1.65
1.65V	111.3	83.0	62.0	50.0	43.3	36.5	33.2	29.8	26.5	24.7	22.9	21.1	17.0	12.8	11.1	9.40	7.75	6.10	5.37	4.63	3.90	3.60	3.30	2.92	1.65
1.70V	105.4	80.0	60.0	48.0	41.8	35.5	32.3	29.2	26.0	24.3	22.5	20.8	16.8	12.7	11.0	9.30	7.70	6.10	5.37	4.63	3.90	3.60	3.30	2.92	1.65
1.75V	100.1	75.0	56.0	46.0	40.3	34.5	31.3	28.2	25.0	23.5	22.0	20.5	16.6	12.6	10.9	9.20	7.60	6.00	5.27	4.53	3.80	3.55	3.30	2.92	1.65
1.80V	95.5	70.0	52.0	44.0	38.5	33.0	30.2	27.3	24.5	23.1	21.6	20.2	16.3	12.3	10.7	9.10	7.50	5.90	5.17	4.43	3.70	3.45	3.20	2.83	1.60

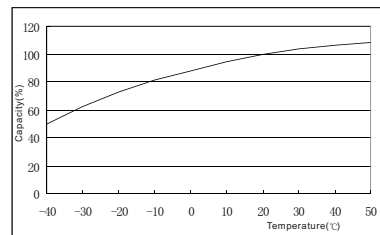
Constant Power Discharge Data (Watts per cell at 20°C/68°F)

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	195.8	153.5	116.7	95.0	82.7	70.3	63.9	57.6	51.2	47.9	44.6	41.3	33.0	24.7	21.6	18.5	15.3	12.0	10.6	9.22	7.83	7.17	6.50	5.74	3.25
1.65V	191.4	151.2	115.3	93.7	81.5	69.3	63.2	57.0	50.8	47.6	44.4	41.2	32.9	24.7	21.6	18.5	15.3	12.0	10.6	9.22	7.83	7.17	6.50	5.74	3.25
1.70V	184.5	147.3	112.8	92.5	80.4	68.3	62.4	56.4	50.5	47.3	44.1	40.8	32.7	24.5	21.4	18.3	15.2	12.0	10.6	9.22	7.83	7.17	6.50	5.74	3.25
1.75V	180.2	141.2	109.2	89.5	78.1	66.7	60.9	55.1	49.3	46.3	43.2	40.2	32.3	24.3	21.3	18.2	15.0	11.8	10.4	9.06	7.67	7.00	6.33	5.59	3.17
1.80V	176.7	132.7	103.0	85.2	74.7	64.2	58.8	53.5	48.2	45.3	42.4	39.5	31.8	24.0	20.9	17.8	14.8	11.7	10.3	8.89	7.50	6.83	6.17	5.45	3.08

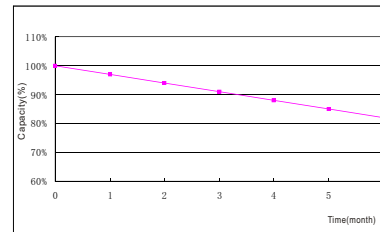
Constant Current Discharge Curve



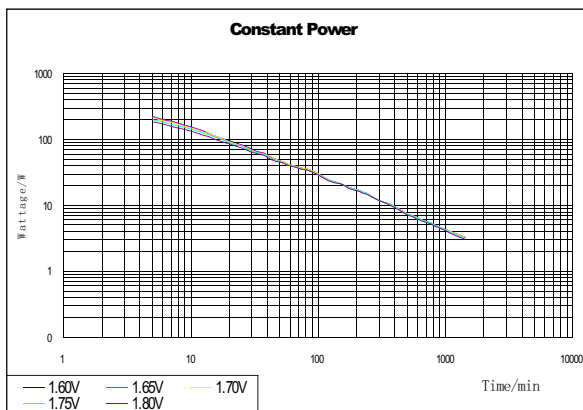
Capacity Vs Temperature



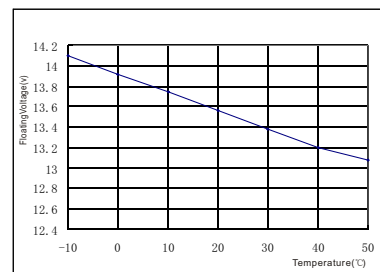
Self Discharge



Constant Power Discharge Curve



Floating Charge Voltage Vs Temperature



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

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