

Complying standards:
IEC60896-21/22 2004
BS-6290:4-1997
Eurobat Guide -12 years and longer "long life"

AGM TECHNOLOGY
ABT Enduro EHP Series

EHP2-400

2V 400Ah(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	195mm	7.68inch
Width	208mm	8.19inch
Height	253mm	9.96inch
Total Height	258mm	10.16inch
Approx. Weight	25.6kg	56.44lbs
Type of material for box and lids : ABS Standard (FV0 Optional)		

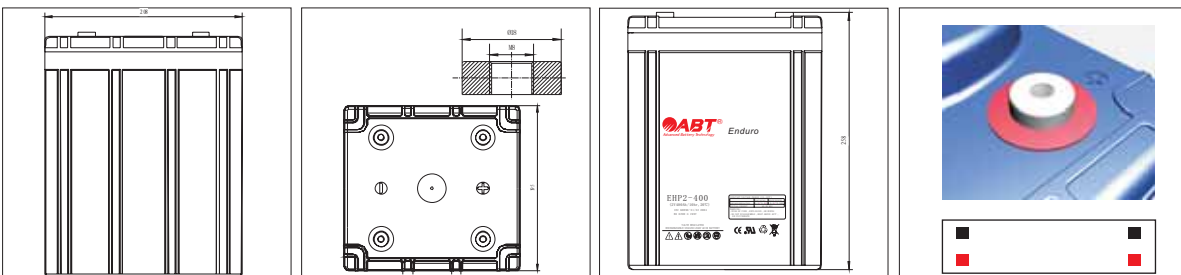
Product Characteristics

- 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	2V
Number of Cell	1
Nominal Capacity 20°C (68°F)	10 hour rate (40.0A, 1.80V) 400Ah 8 hour rate (49.4A, 1.75V) 395.2Ah 1 hour rate (240.0A, 1.75V) 240Ah
Intensity	
Max. Discharge Current	20°C (68°F) 2200A(5s)
Short circuit current	5100A
Maximum charge current	60A(15% of rated capacity)
Internal Resistance	Fully Charged battery 20°C (68°F) 0.42mOhms
Mass Energy(Wh/kg)	31.25
Volumic Energy(Wh/L)	77.96
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 2.34-2.38V Temperature compensation -3.5mV/°C/unit Standby use 2.24-2.28V Temperature compensation -3.5mV/°C/unit
Terminal Type	Inserted Thread and bolt M8X φ 18
Torque strength in Nm	12~16
Handle Type	No
Flame arrester	Yes

Dimensions / Terminal



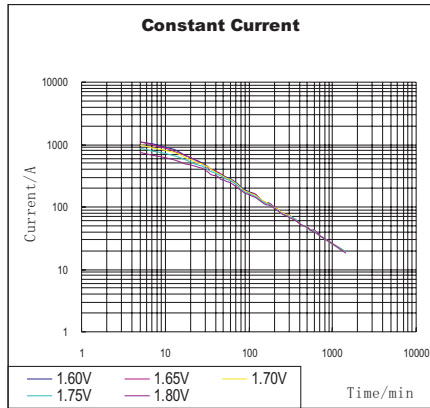
Constant Current Discharge Data (Amperes at 20°C / 68°F)

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	1092	831	677	573	498	440	394	357	325	298	274	255	194	156	132	112	88.3	73.5	63.3	55.5	50.8	45.1	41.4	34.7	17.7
1.65V	993	761	625	534	467	415	374	340	311	286	265	251	189	153	129	110	87.2	72.6	62.7	55.0	50.3	44.7	41.1	34.5	17.6
1.70V	906	698	578	497	438	392	354	323	297	274	255	243	184	151	128	109	86.1	71.8	62.1	54.6	49.9	44.2	40.7	34.2	17.5
1.75V	793	643	545	474	421	378	343	314	289	268	249	240	182	148	125	107	85.0	70.9	61.3	54.1	49.4	43.8	40.5	34.0	17.3
1.80V	696	595	514	452	404	364	331	304	280	259	241	230	177	144	123	105	83.7	70.0	60.5	53.4	48.8	43.4	40.0	33.7	17.2

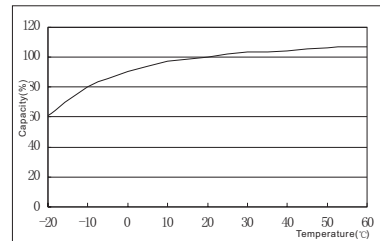
Constant Power Discharge Data (Watts per cell at 20°C / 68°F)

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	1591	1347	1118	974	833	742	664	601	549	513	472	449	346	283	238	205	162	136	118	106	97.8	87.4	79.7	67.5	35.5
1.65V	1462	1223	1024	898	774	689	619	566	522	488	456	433	333	274	232	199	158	134	116	104	96.6	86.1	78.3	66.7	35.0
1.70V	1290	1120	952	840	725	643	586	537	496	462	436	421	324	266	226	195	155	132	114	103	95.4	85.1	77.5	66.0	34.5
1.75V	1156	1036	888	781	673	603	547	504	472	441	416	401	315	260	220	191	152	129	113	102	94.2	83.8	76.5	65.3	34.0
1.80V	1062	950	813	719	627	565	520	476	450	425	399	383	306	253	215	187	150	127	111	100	92.9	82.7	75.3	64.6	33.4

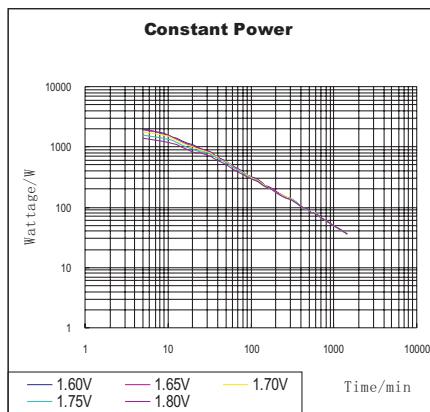
Constant Current Discharge Curve



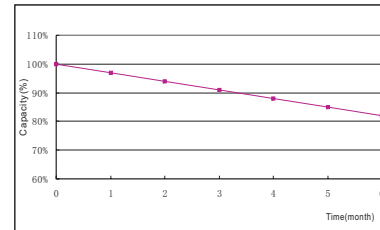
Capacity Vs Temperature



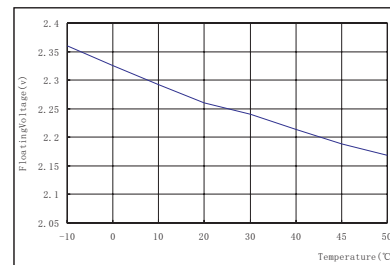
Constant Power Discharge Curve



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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