

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

AGM TECHNOLOGY
ABT Enduro EHP Series

EHP2-300

2V 300Ah(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	20.9kg	46.08lbs
Type of material for box and lids : ABS Standard (FV0 Optional)		

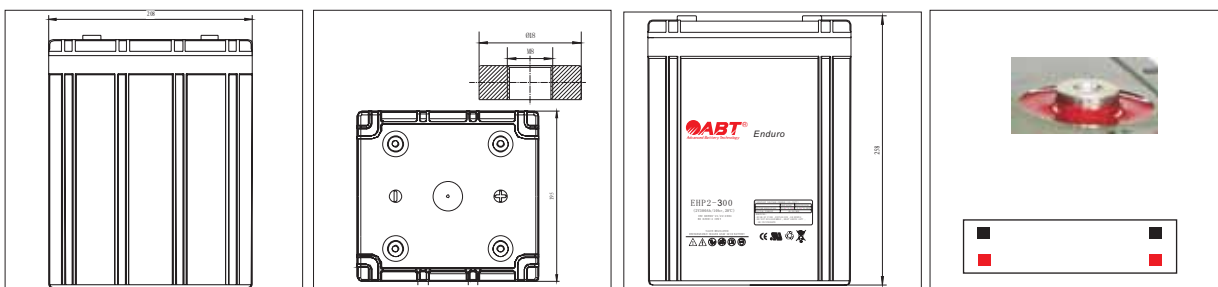
Product Characteristics

- 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 (30.0A, 1.80V) 300Ah 8 hour rate (37.0A, 1.75V) 296Ah 1 hour rate (180A, 1.75V) 180Ah
Intensity	
Max. Discharge Current	20°C (68°F) 1650A(5s)
Short circuit current	4300A
Maximum charge current	45(15% of rated capacity)
Internal Resistance	Fully Charged battery 20°C (68°F) 0.46mOhms
Mass Energy(Wh/kg)	28.71
Volumic Energy(Wh/L)	58.47
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



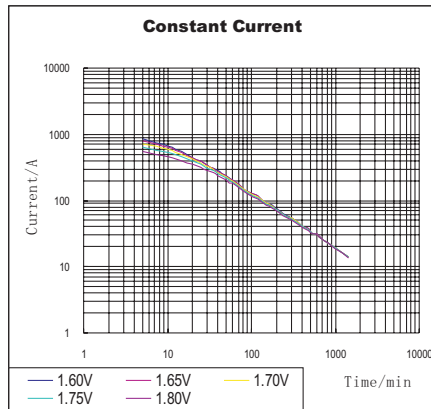
Constant Current Discharge Data (Amperes at 20°C/68°F)

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	819	623	507	430	373	330	296	267	244	224	206	191	145	117	98.7	83.9	66.2	55.1	47.5	41.6	38.1	33.8	31.1	26.0	13.3
1.65V	745	570	469	400	350	312	280	255	233	215	199	188	142	115	97.0	82.7	65.4	54.5	47.0	41.3	37.7	33.5	30.8	25.9	13.2
1.70V	680	524	434	373	328	294	266	242	222	205	192	183	138	113	95.7	81.5	64.6	53.9	46.5	40.9	37.4	33.1	30.6	25.7	13.1
1.75V	595	482	408	356	316	284	258	236	217	201	187	180	136	111	94.0	80.2	63.7	53.2	46.0	40.5	37.0	32.8	30.4	25.5	13.0
1.80V	522	446	386	339	303	273	249	228	210	195	181	173	132	108	92.0	78.8	62.8	52.5	45.4	40.0	36.6	32.5	30.0	25.3	12.9

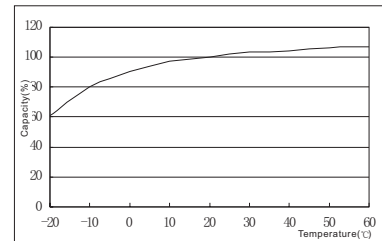
Constant Power Discharge Data (Watts per cell at 20°C/68°F)

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	1193	1010	838	730	625	556	498	451	412	385	354	337	260	213	179	153	121	102	88.7	79.3	73.3	65.5	59.7	50.6	26.6
1.65V	1096	917	768	674	580	517	464	424	392	366	342	325	250	205	174	149	119	100	87.0	78.2	72.4	64.6	58.7	50.0	26.3
1.70V	968	840	714	630	544	482	440	403	372	346	327	316	243	200	170	146	116	98.8	85.8	77.2	71.6	63.8	58.2	49.5	25.9
1.75V	867	777	666	585	505	452	410	378	354	331	312	301	236	195	165	143	114	97.0	84.8	76.4	70.6	62.9	57.4	48.9	25.5
1.80V	797	713	610	539	470	424	390	357	337	319	299	287	229	189	162	140	112	95.3	83.4	75.0	69.7	62.0	56.5	48.4	25.1

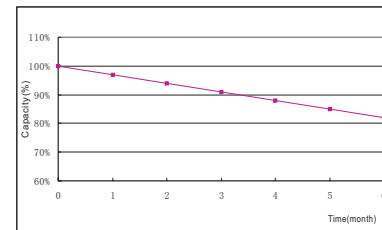
Constant Current Discharge Curve



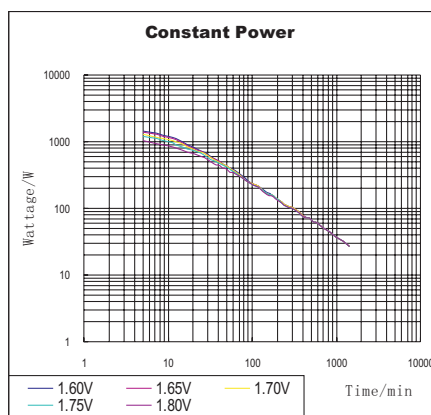
Capacity Vs Temperature



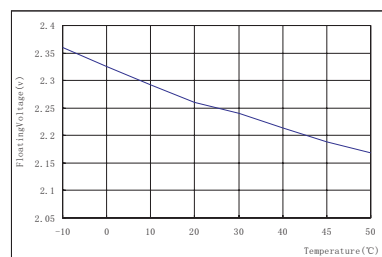
Self Discharge



Constant Power Discharge Curve



Floating Charge Voltage Vs Temperature



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

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