



AGM TECHNOLOGY
ABT Enduro EHP Series

EHP2-515

2V 515Ah(10hr)

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



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	296mm	11.65inch
Width	203mm	7.99inch
Height	222mm	8.74inch
Total Height	240mm	9.45inch
Approx. Weight	34.7kg	76.50lbs
Type of material for box and lids : ABS Standard (FV0 Optional)		

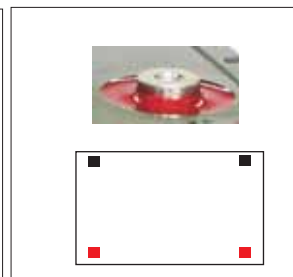
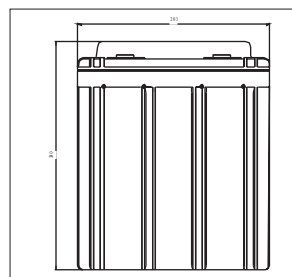
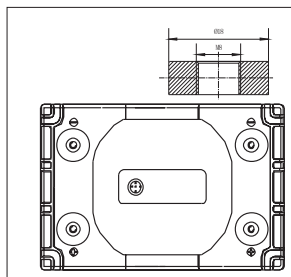
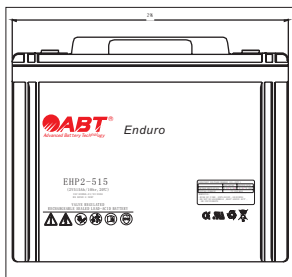
Product Characteristics

- 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 (51.5A, 1.80V) 515Ah 8 hour rate (63.6A, 1.75V) 508.8Ah 1 hour rate (309.0A, 1.75V) 309Ah
Intensity	
Max. Discharge Current	20°C (68°F)2800A(5s)
Short circuit current	5400A
Maximum charge current	77.25A(15% of rated capacity)
Internal Resistance	Fully Charged battery 20°C (68°F) 0.38mOhms
Mass Energy(Wh/kg)	29.68
Volumic Energy(Wh/L)	77.21
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	Incorporated
Flame arrester	Yes

Dimensions / Terminal



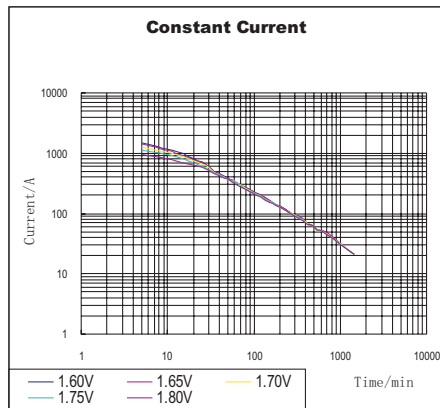
Constant Current Discharge Data (Amperes at 20°C/68°F)

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	1406	1069	871	738	641	567	508	459	419	384	353	329	250	201	170	144	114	94.6	81.5	71.4	65.4	58.1	53.3	44.7	22.8
1.65V	1278	979	805	688	601	535	481	437	400	368	341	323	244	198	166	142	112	93.5	80.7	70.8	64.8	57.5	52.9	44.4	22.6
1.70V	1167	899	745	641	564	504	456	416	382	353	329	313	238	194	164	140	111	92.5	79.9	70.3	64.2	56.9	52.4	44.1	22.5
1.75V	1021	828	701	611	542	487	442	405	373	345	320	309	234	190	161	138	109	91.3	78.9	69.6	63.6	56.4	52.1	43.7	22.3
1.80V	896	766	662	582	520	469	427	391	361	334	311	297	227	186	158	135	108	90.2	77.9	68.7	62.9	55.8	51.5	43.4	22.2

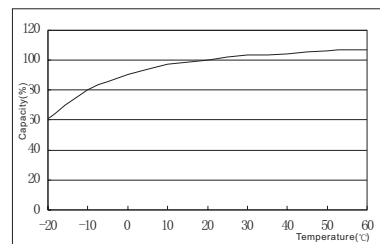
Constant Power Discharge Data (Watts per cell at 20°C/68°F)

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	2049	1734	1439	1254	1072	955	854	774	707	661	608	578	446	365	307	263	208	175	152	136	126	113	103	86.9	45.7
1.65V	1882	1574	1319	1156	996	887	797	729	672	628	587	558	429	352	299	256	204	172	149	134	124	111	101	85.8	45.1
1.70V	1661	1442	1226	1081	934	828	755	691	639	594	561	542	418	343	291	251	200	170	147	133	123	110	100	84.9	44.4
1.75V	1488	1334	1143	1005	867	776	704	649	607	568	536	516	406	334	284	246	196	166	146	131	121	108	98.5	84.0	43.8
1.80V	1368	1224	1047	926	808	728	669	613	579	547	514	493	394	325	277	241	193	164	143	129	120	106	97.0	83.2	43.0

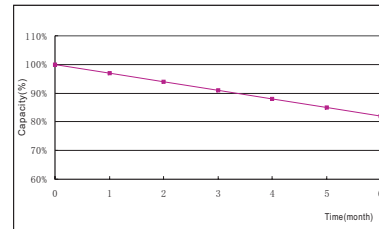
Constant Current Discharge Curve



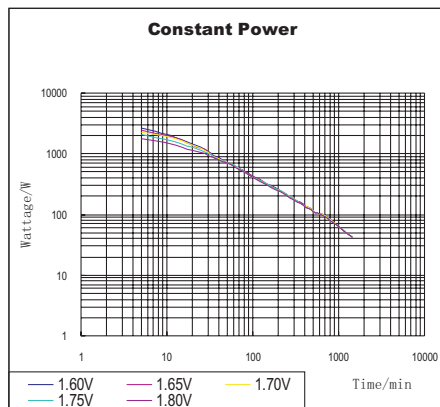
Capacity Vs Temperature



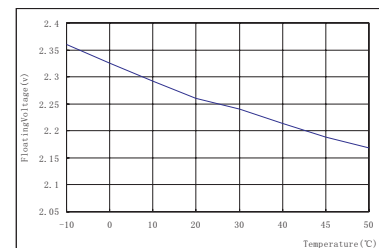
Self Discharge



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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