



AGM TECHNOLOGY
ABT Enduro EHP Series

EHP2-275

2V 275Ah(10hr)

Complying standards:

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	142mm	5.59inch
Width	205mm	8.07inch
Height	242mm	9.53inch
Total Height	260mm	10.24inch
Approx. Weight	18.1kg	39.90lbs
Type of material for box and lids: ABS Standard (FV0 Optional)		

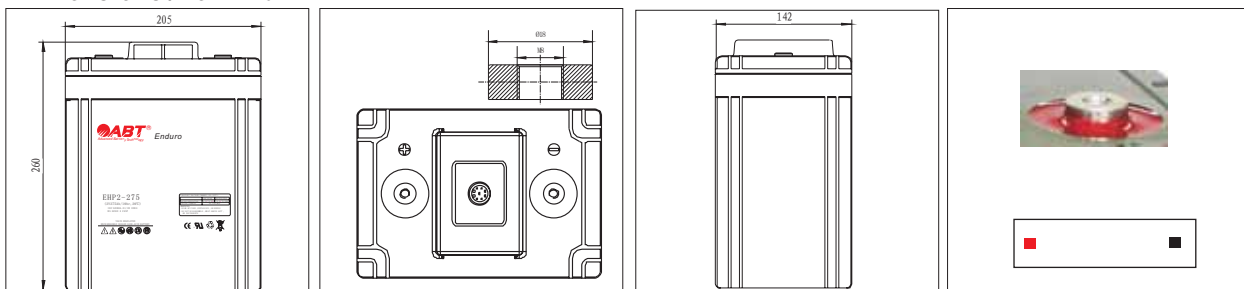
Product Characteristics

- 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 (27.5A, 1.80V) 275Ah 8 hour rate (34.0A, 1.75V) 272Ah 1 hour rate (165A, 1.75V) 165Ah
Intensity	
Max. Discharge Current	20°C (68°F) 1500A(5s)
Short circuit current	3600A
Maximum charge current	41.25A(15% of rated capacity)
Internal Resistance	Fully Charged battery 20°C (68°F) 0.52mOhms
Mass Energy(Wh/kg)	30.39
Volumic Energy(Wh/L)	78.07
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



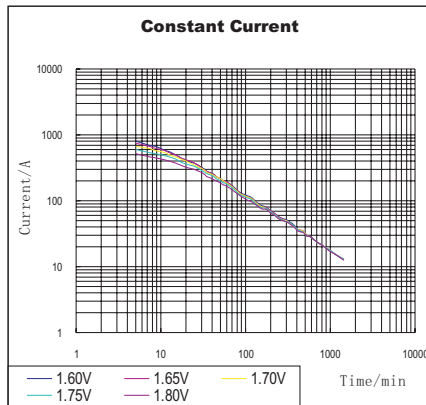
Constant Current Discharge Data (Amperes at 20°C/68°F)

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	751	571	465	394	342	303	271	245	224	205	188	175	133	107	90.5	76.9	60.7	50.5	43.5	38.1	34.9	31.0	28.5	23.9	12.2
1.65V	683	523	430	367	321	286	257	234	214	197	182	172	130	105	88.9	75.8	60.0	49.9	43.1	37.8	34.6	30.7	28.2	23.7	12.1
1.70V	623	480	398	342	301	269	243	222	204	188	176	167	130	104	87.7	74.7	59.2	49.4	42.7	37.5	34.3	30.4	28.0	23.5	12.0
1.75V	545	442	374	326	289	260	236	216	199	184	171	165	125	102	86.1	73.5	58.4	48.7	42.1	37.2	34.0	30.1	27.8	23.3	11.9
1.80V	479	409	353	311	277	250	228	209	193	178	166	158	121	99.3	84.3	72.2	57.6	48.2	41.6	36.7	33.6	29.8	27.5	23.2	11.8

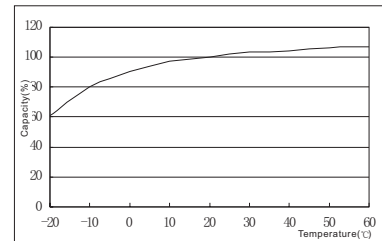
Constant Power Discharge Data (Watts per cell at 20°C/68°F)

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	1094	926	768	669	572	510	456	413	378	353	325	309	238	195	164	141	111	93.4	81.3	72.7	67.2	60.1	54.8	46.4	24.4
1.65V	1005	841	704	617	532	474	426	389	359	335	314	298	229	188	159	137	109	91.8	79.7	71.7	66.4	59.2	53.8	45.8	24.1
1.70V	887	770	655	577	499	442	403	369	341	317	299	289	223	183	155	134	107	90.6	78.7	70.8	65.6	58.5	53.3	45.3	23.7
1.75V	795	712	610	537	463	414	376	347	324	303	286	276	217	178	152	131	105	88.9	77.7	70.0	64.7	57.6	52.6	44.9	23.4
1.80V	730	653	559	494	431	389	357	328	309	292	274	263	210	174	148	129	103	87.3	76.5	68.8	63.9	56.8	51.8	44.4	23.0

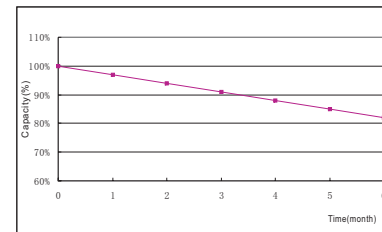
Constant Current Discharge Curve



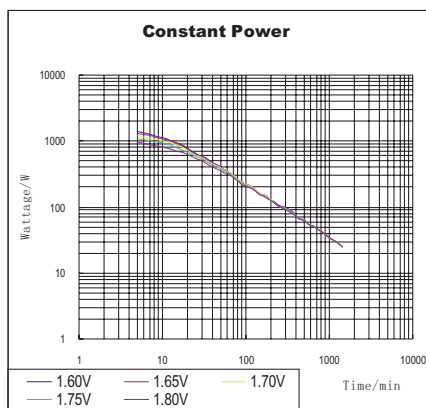
Capacity Vs Temperature



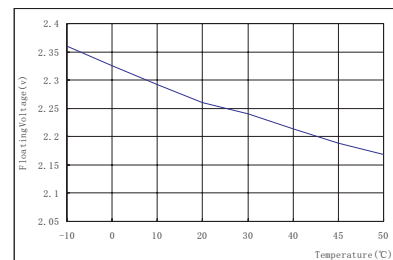
Self Discharge



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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 (Edition: May, 2011)