

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

AGM TECHNOLOGY
ABT Enduro EHP Series

EHP2-250

2V 250Ah(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	142mm	5.59inch
Width	205mm	8.07inch
Height	242mm	9.53inch
Total Height	260mm	10.24inch
Approx. Weight	17.1kg	37.70lbs
Type of material for box and lids : ABS Standard (FV0 Optional)		

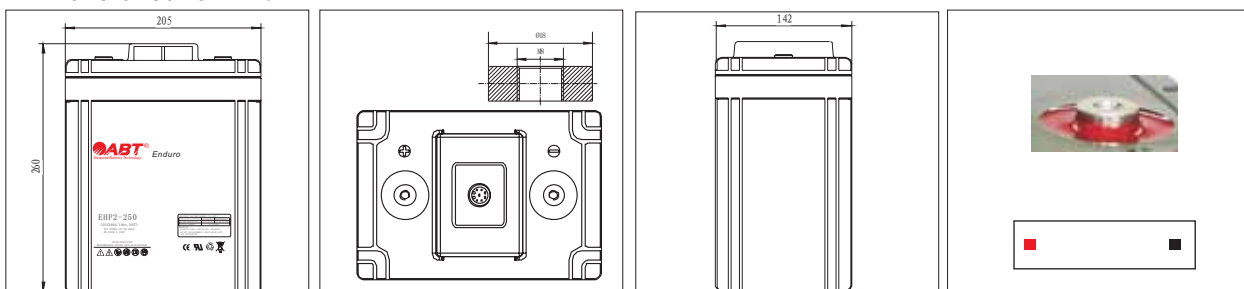
Product Characteristics

- 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 (25.0A, 1.80V) 250Ah 8 hour rate (30.9A, 1.75V) 247.2Ah 1 hour rate (150.0A, 1.75V) 150Ah
Intensivity	
Max. Discharge Current	20°C (68°F) 1350A(5s)
Short circuit current	3500A
Maximum charge current	37.5A(15% of rated capacity)
Internal Resistance	Fully Charged battery 20°C (68°F) 0.53mOhms
Mass Energy(Wh/kg)	29.24
Volumic Energy(Wh/L)	70.98
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



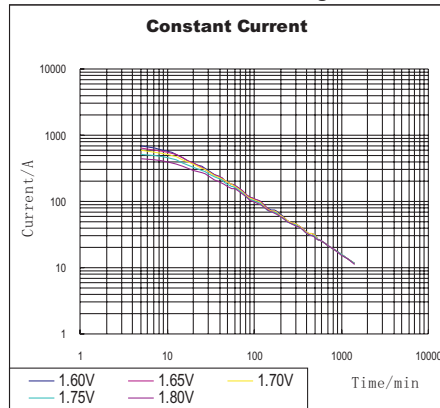
Constant Current Discharge Data (Amperes at 20°C/68°F)

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	11.0
1.60V	683	519	423	358	311	275	246	223	203	186	171	160	121	97.5	82.3	69.9	55.2	45.9	39.6	34.7	31.8	28.2	25.9	21.7	11.0
1.65V	620	475	391	334	292	260	234	212	194	179	166	157	118	95.9	80.8	68.9	54.5	45.4	39.2	34.4	31.5	27.9	25.7	21.6	11.0
1.70V	567	436	361	311	274	245	221	202	185	171	160	152	115	94.1	79.7	67.9	53.8	44.9	38.8	34.1	31.2	27.6	25.5	21.4	10.9
1.75V	496	402	340	296	263	236	215	196	181	167	155	150	113	92.5	78.3	66.9	53.1	44.3	38.3	33.8	30.9	27.4	25.3	21.2	10.8
1.80V	435	372	321	283	252	228	207	190	175	162	151	144	110	90.3	76.6	65.6	52.3	43.8	37.8	33.4	30.5	27.1	25.0	21.0	10.8

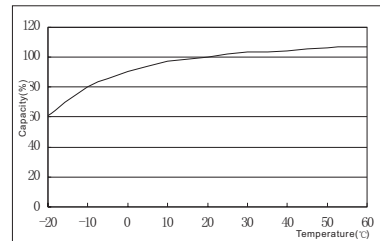
Constant Power Discharge Data (Watts per cell at 20°C/68°F)

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	995	842	699	609	520	463	415	376	343	321	295	281	216	177	149	128	101	84.9	73.9	66.1	61.1	54.6	49.8	42.2	22.2
1.65V	914	764	640	561	483	431	387	354	326	305	285	271	208	171	145	124	98.8	83.5	72.5	65.2	60.4	53.8	48.9	41.7	21.9
1.70V	806	700	595	525	453	402	366	335	310	289	272	263	203	166	141	122	97.0	82.3	71.5	64.3	59.6	53.2	48.5	41.2	21.6
1.75V	722	647	555	488	421	377	342	315	295	276	260	251	197	162	138	119	95.2	80.8	70.6	63.6	58.8	52.4	47.8	40.8	21.2
1.80V	664	594	508	449	392	353	325	298	281	266	249	239	191	158	135	117	93.5	79.4	69.5	62.5	58.1	51.7	47.1	40.4	20.9

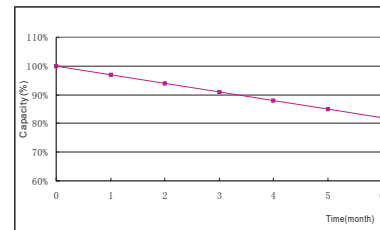
Constant Current Discharge Curve



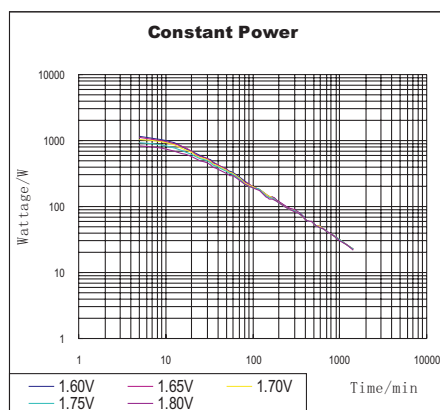
Capacity Vs Temperature



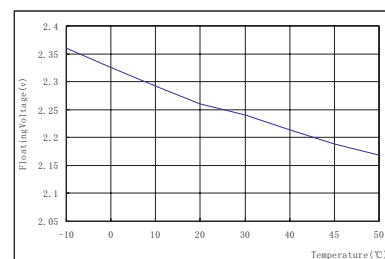
Self Discharge



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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