

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

AGM TECHNOLOGY
ABT Enduro EHP Series

EHP2-455

2V 455Ah(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	296mm	11.65inch
Width	203mm	7.99inch
Height	222mm	8.74inch
Total Height	240mm	9.45inch
Approx. Weight	32.6kg	71.87lbs
Type of material for box and lids : ABS Standard (FV0 Optional)		

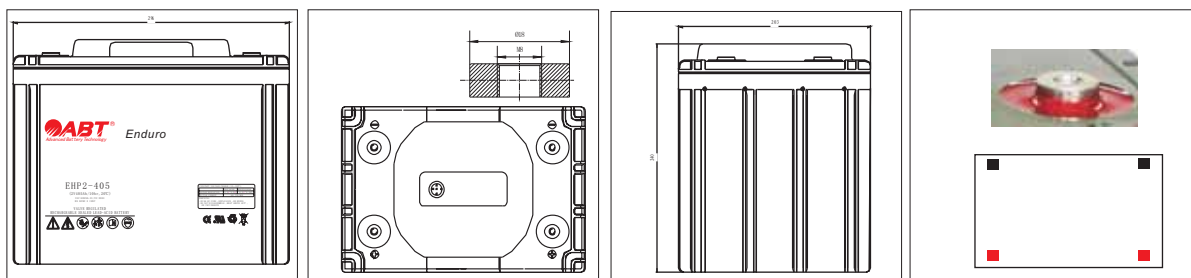
Product Characteristics

- 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 (45.5A, 1.80V) 455Ah 8 hour rate (56.2A, 1.75V) 449.6Ah 1 hour rate (273.0A, 1.75V) 273Ah
Intensity	
Max. Discharge Current	20°C (68°F) 2500A(5s)
Short circuit current	5200A
Maximum charge current	68.25A(15% of rated capacity)
Internal Resistance	Fully Charged battery 20°C (68°F) 0.40mOhms
Mass Energy(Wh/kg)	27.91
Volumic Energy(Wh/L)	68.22
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



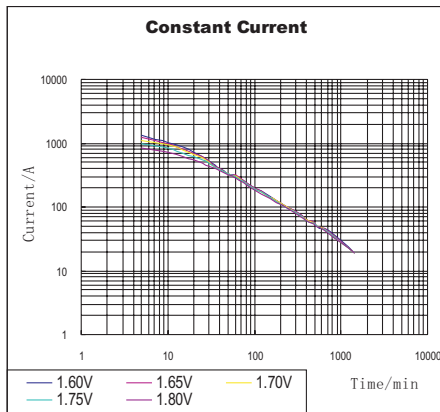
Constant Current Discharge Data (Amperes at 20°C / 68°F)

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	1242	945	770	652	566	501	449	406	370	339	312	290	221	177	150	127	100	83.6	72.0	63.1	57.8	51.3	47.1	39.5	20.1
1.65V	1129	865	711	607	531	472	425	386	354	325	301	285	215	174	147	125	99.2	82.6	71.3	62.6	57.2	50.8	46.7	39.2	20.0
1.70V	1031	794	658	566	498	445	403	367	337	312	291	277	210	171	145	124	97.9	81.7	70.6	62.1	56.7	50.3	46.3	38.9	19.9
1.75V	902	731	619	539	479	430	391	357	329	305	283	273	207	168	143	122	96.7	80.6	69.7	61.5	56.2	49.8	46.0	38.6	19.7
1.80V	792	677	585	514	459	414	377	346	319	295	274	262	201	164	139	119	95.2	79.7	68.8	60.7	55.6	49.3	45.5	38.3	19.6

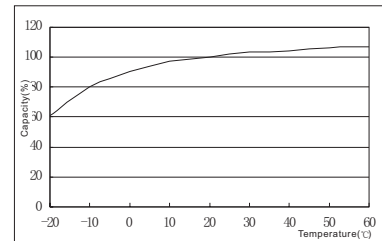
Constant Power Discharge Data (Watts per cell at 20°C / 68°F)

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	1810	1532	1271	1108	947	843	755	684	625	584	537	511	394	322	271	233	184	155	135	120	111	99.4	90.6	76.8	40.3
1.65V	1663	1391	1165	1021	880	784	704	644	594	555	519	493	379	311	264	226	180	152	132	119	110	98.0	89.0	75.8	39.8
1.70V	1468	1274	1083	955	825	731	667	610	565	525	495	479	369	303	257	222	177	150	130	117	109	96.8	88.2	75.0	39.2
1.75V	1315	1178	1010	888	766	686	622	574	537	501	473	456	359	295	251	217	173	147	129	116	107	95.4	87.0	74.2	38.7
1.80V	1208	1081	925	818	713	643	591	542	512	483	454	436	348	287	245	213	170	145	127	114	106	94.0	85.7	73.5	38.0

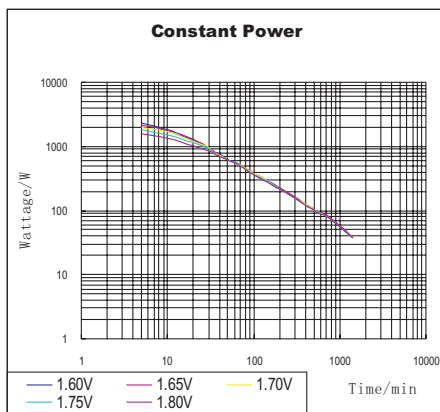
Constant Current Discharge Curve



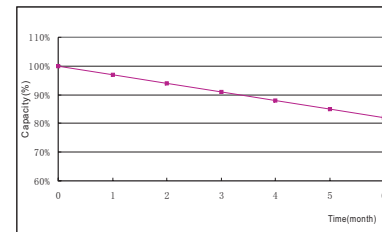
Capacity Vs Temperature



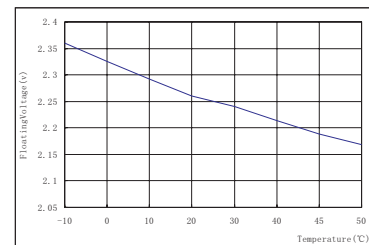
Constant Power Discharge Curve



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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