



AGM TECHNOLOGY
ABT Enduro EFHP Series

EFTB12-155

12V155Ah(10hr)

Complying standards:

IEC60896-21/22 2004,
JIS C8704-1/2 2006,
BS6290-41997,
JIS C8702-1/2 2003,
Eurobat Guide



High Performance

The ABT Enduro EFHP 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 EFHP 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. The Enduro EFHP front terminal monoblocs is compact design and standard footprint for 19" and 23" and ETST cabinet.

Mechanical Characteristics

	SI Unit	English Unit
Length	551mm	21.69inch
Width	110mm	4.33inch
Height	320mm	12.6inch
Total Height	320mm	12.6inch
Approx. Weight	51.0Kg	112.43lbs
Type of material for Box and lids : ABS Standard (FV0 Optional)		

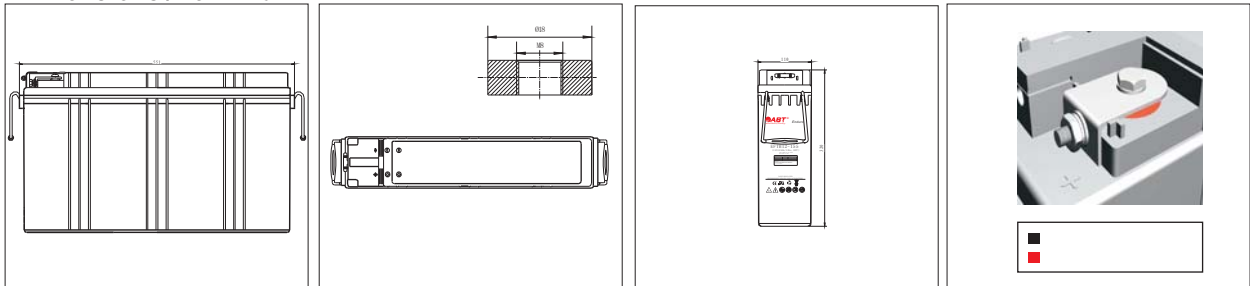
Product Characteristics

- Thick Pb-Ca-Sn alloy grids designed to resist corrosion and prolong life
- Low resistance microporous glass fibre separator
- Low specific acid density
- Centralized venting system for gas ventilation
- Flame arrestor to improve safety
- Rope handles for easy installation
- Pillar with brass insert where screwed an copper connector fitted with a bolt and stainless nut and washers
- Design life 12 years
- Low Self Discharge
- U. L. Component Recognition
- Six months shelf life at 20°C

Performance Characteristics

Nominal Voltage	12V
Number of Cell	6
Nominal Capacity 20°C (68°F)	20 hour rate (8.1A, 10.8V) 162Ah 10 hour rate (15.5A, 10.8V) 155Ah 1 hour rate (103.9A, 9.60V) 103.9Ah
Intensity	
Max. Discharge Current	20°C (68°F) 700A(5s)
Short circuit current	3200A
Maximum charge current	31A(20% of rated capacity)
Internal Resistance	Fully Charged battery 20°C (68°F) 3.89mOhms
Mass Energy(Wh/kg)	36.47
Volumic Energy(Wh/L)	95.9
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 14.1-14.4V Temperature compensation -24mV/°C Standby use 13.5-13.74V Temperature compensation -20mV/°C
Terminal Type	Inserted Thread and bolt M8 ϕ 18
Torque strength in Nm	12~16
Handle Type	Rope

Dimensions / Terminal



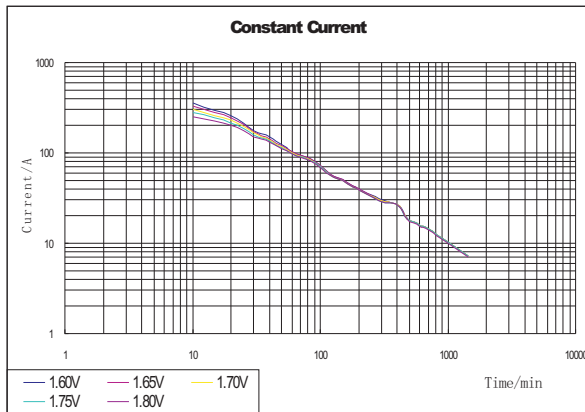
Constant Current Discharge Data (Amperes at 20°C / 68°F)

End Volt. Per Cell	5min	10min	15min	20min	25min	30min	35min	40min	45min	50min	1h	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	12h	24h
1.60v	496	355.1	276.8	239.2	201.6	164.0	151.5	138.9	129.0	120.1	103.9	81.4	58.9	49.8	41.7	32.6	27.0	22.3	19.9	18.5	16.9	15.7	13.4	7.29
1.65v	462	335.1	265.2	229.5	193.7	158.0	145.2	132.4	122.2	115.1	102.3	80.3	58.3	49.3	41.1	32.3	26.8	22.3	19.9	18.5	16.9	15.6	13.3	7.29
1.70v	425	318.7	245.1	220.4	187.0	153.7	141.5	129.3	119.6	112.5	99.8	78.6	57.4	48.6	40.8	32.1	26.7	22.1	19.7	18.1	16.7	15.6	13.3	7.22
1.75v	372	307.8	230.6	210.7	179.1	147.6	136.4	125.1	116.3	109.7	98.0	77.3	56.7	48.2	40.8	32.1	26.5	22.1	19.6	18.0	16.7	15.6	13.3	7.19
1.80v	335	295.0	216.2	200.8	171.1	141.3	131.2	121.1	113.4	107.3	96.7	76.6	56.4	47.9	40.5	31.8	26.4	21.9	19.4	18.0	16.6	15.5	13.2	7.10

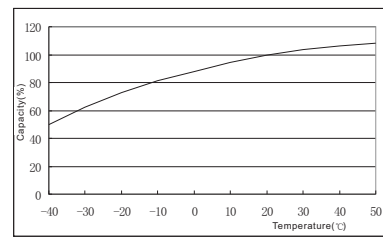
Constant Power Discharge Data (Watts per cell at 20°C / 68°F)

End Volt. Per Cell	5min	10min	15min	20min	25min	30min	35min	40min	45min	50min	1h	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	12h	24h
1.60v	805	576.3	479.5	420.1	360.7	301.2	275.1	249.0	230.1	220.7	205.4	145.7	114.9	95.1	82.7	66.6	58.3	49.7	41.9	37.6	33.5	31.8	27.1	14.0
1.65v	755	564.4	467.0	408.8	350.6	292.3	268.0	243.6	226.4	216.4	199.6	142.0	111.4	93.0	81.8	65.7	57.3	48.6	41.1	37.0	33.1	31.6	26.9	13.9
1.70v	740	552.4	454.5	398.1	341.6	285.2	261.4	237.7	220.9	212.0	197.6	139.9	109.7	91.7	80.4	64.7	56.2	47.8	40.5	36.8	33.1	31.4	26.9	13.9
1.75v	669	540.5	442.1	386.8	331.5	276.3	254.3	232.3	217.2	207.7	191.8	136.8	108.1	90.2	79.1	63.8	55.6	47.3	40.0	36.6	32.7	31.2	26.9	13.9
1.80v	619	528.6	427.8	374.3	320.9	267.4	246.6	225.8	211.7	202.1	186.0	134.1	106.4	88.9	78.0	62.9	54.7	46.7	39.4	36.3	32.6	31.0	26.9	13.8

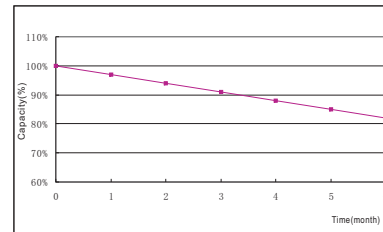
Constant Current Discharge Curve



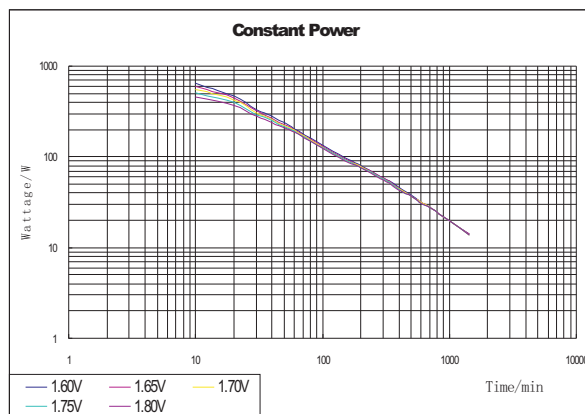
Capacity Vs Temperature



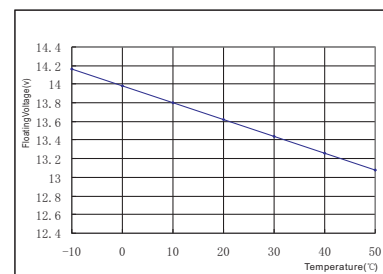
Self Discharge



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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