



AGM TECHNOLOGY
ABT Etrek DM Series

6-DM-155

12V155Ah(5hr,68 °F20°C)

6-DM-155 is a Deep Cycle battery with the capability of high output power, especially for EV use. As with all ABT batteries, all are rechargeable, highly efficient, leak proof and maintenance free.

Complying standards:
IEC 61982. 3 2001
IEC 61056. 1/2 2002



ISO14001

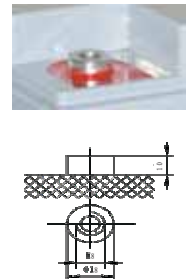
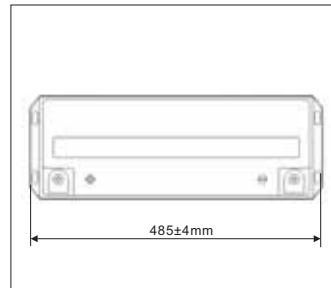
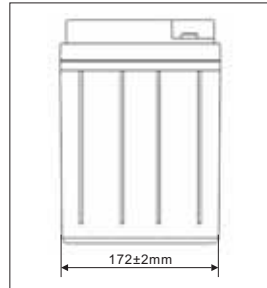
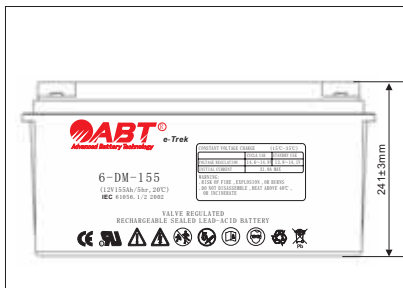
ISO9001



Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	155Ah @5hr-rate to 1.75V Per cell @20°C(68°F)
Weight	Approx. 53kg(116.8lbs)
Maximum Discharge Current (5s)	68°F(20°C)775 A
Internal Resistance	Approx. 5 mΩ
Operating Temperature Range	Discharge -20~45°C; Charge 5~35°C; Storage 0~40°C
Nominal Operating Temperature Range	20°C±3°C(68°F±5°F)
Float Charging Voltage	13.8 t o 14.1 VDC/unit Average at 20°C(68°F)
Recommended Maximum Charging Current Limit	31A
Equalization and Cycle Service	14.6 to 14.8VDC/unit Average at 20°C(68°F)
Self Discharge	ABT batteries can be stored for more than 6 months at 20°C(68°F). Please charge batteries before using. For higher temperatures the time interval will be shorter.
Terminal	Φ18×M8
Container Material	ABS(IEC707 V0) Flammability resistance of IEC707-V0 can be available upon request.

Dimensions / Terminal



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

End voltage (V/cell)	Discharge time (minute)										
	10	20	30	45	60	90	120	180	300	600	1200
1.6	479.1	267.3	195.7	159.8	123.3	86.1	66.9	50.6	31.3	16.4	8.55
1.65	453.1	263.1	193.9	158.9	122.7	85.8	66.8	50.4	31.2	16.3	8.54
1.7	437.6	261.3	192.2	158.3	122.4	85.5	66.5	50.2	31.1	16.2	8.52
1.75	427.8	255.8	190	156	121.2	84.5	66.1	50	31	16.1	8.5

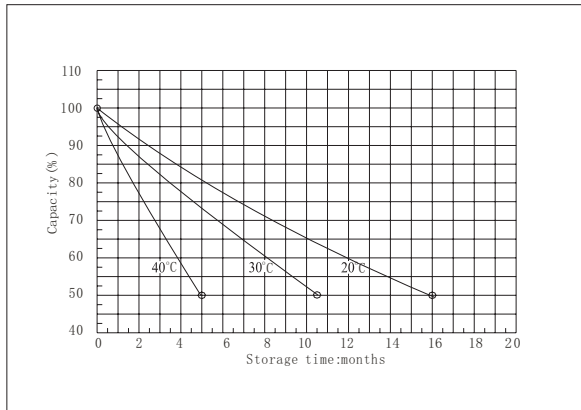
Constant Power Discharge Data (Watts per cell at 20°C / 68°F)

End voltage (V/cell)	Discharge time (minute)										
	10	20	30	45	60	90	120	180	300	600	1200
1.6	892	508.8	378.6	309.8	242.9	170	133.9	102.1	63.2	33.2	17.7
1.65	845.8	502.1	376.3	308.4	241.6	169.5	133.5	101.8	62.9	33.1	17.6
1.7	819.1	496	375.8	306.7	240.3	168.3	133	101.4	62.7	33	17.5
1.75	802.1	490.2	370.6	305	238.4	167.9	132.3	100.3	62.3	32.9	17.4



Advanced Battery Technology

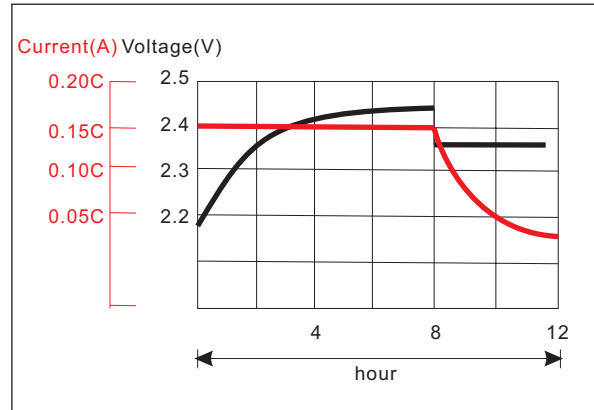
Capacity Retention Characteristic



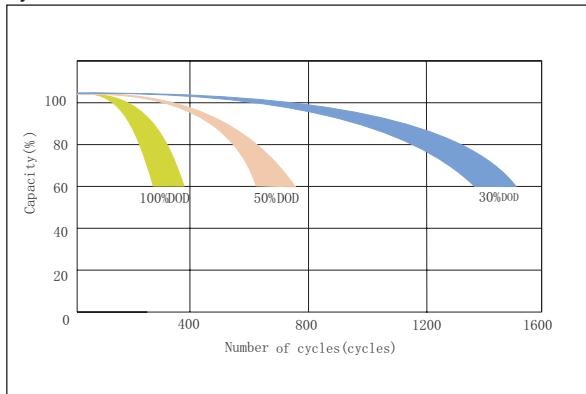
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12V155Ah(5hr, 68°F20°C)

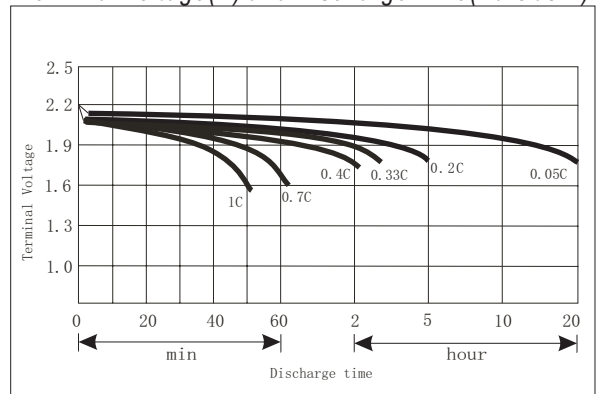
Battery Voltage and Charge Time for Cycle Use



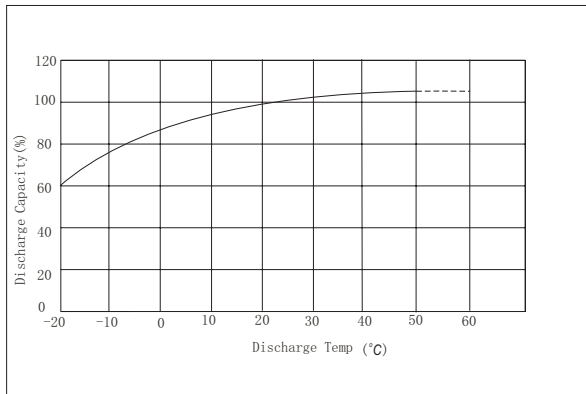
Cycle Service Life



Terminal Voltage (V) and Discharge Time (20°C/68°F)



Discharge Capacity Vs Temperature



Applications

- House car
- Trolley
- Golf car
- Electric vehicle
- Electric machine

Charging Procedures

Application	Charge Voltage(V/Cell)			Max. Charge Current
	Temperature	Set Point	Allowable Ranges	
Cycle Use	20°C(68°F)	2.45	2.40~2.50	0.15C
Standby	20°C(68°F)	2.33	2.30~2.35	0.2C

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/Cell	1.75	1.60	1.40
Discharge Current(A)	0.4C ≥ (A)	0.4C < (A) ≤ 1.0C	(A) ≥ 1.5C

Contact information

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ABT VRLA Battery: Available Power Range From 0.8Ah to 3000Ah

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