



AGM TECHNOLOGY
ABT Etrek DM Series

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

6-DM-76

12V76Ah(5hr,68 °F20°C)

6-DM-76 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.



ISO14001

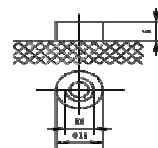
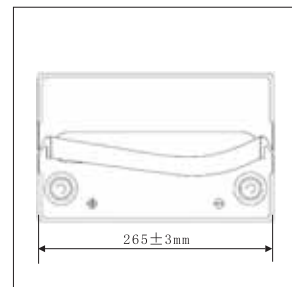
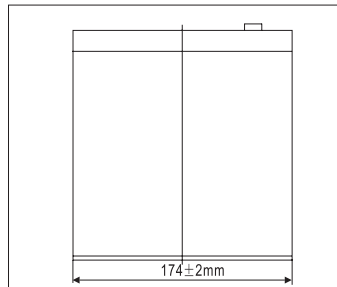
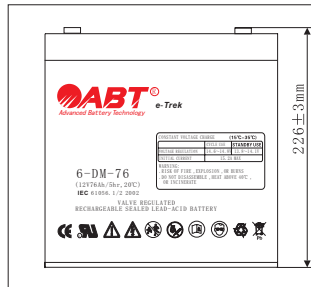
ISO9001



Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	76Ah @5hr-rate to 1.75V Per cell @20°C(68°F)
Weight	Approx. 28kg(61.7lbs)
Maximum Discharge Current	68°F(20°C) 1100A
Internal Resistance	Approx. 6 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	11.4A
Equalization and Cycle Service	14.6 to 14.9VDC/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	Φ16×M6
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	205	145	100	83	60	45	30	25.6	17	9.6	4.7
1.65	202	140	99	81	58	42	29.2	24.8	16.4	9.2	4.7
1.7	198	134	96	79	56	38	26	24	15.8	8.8	4.6
1.75	196	129	95	77	54	36	25.2	23.4	15.2	8.5	4.6

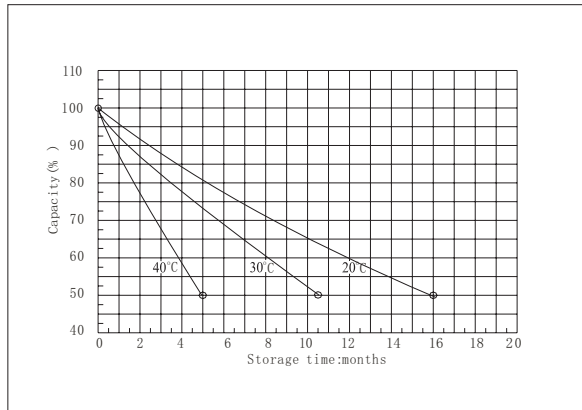
Constant Power Discharge Data (Watts per cell at 20°C / 68°F)

End voltage (V/cell)	Discharge time (minute)										
	10	20	30	45	60	90	120	180	300	600	1200
1.6	382	258	192	156	113	83	56	48.1	32.2	18	9.7
1.65	376	252	186	151	109	79	53	46	31	17.3	9.4
1.7	370	246	182	147	105	75	50	44.6	29.8	16.6	9
1.75	362	240	178	142	101	72	48	42	28.7	16	8.7



Advanced Battery Technology

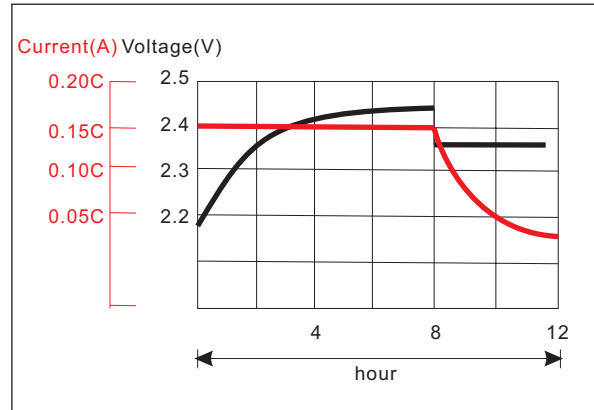
Capacity Retention Characteristic



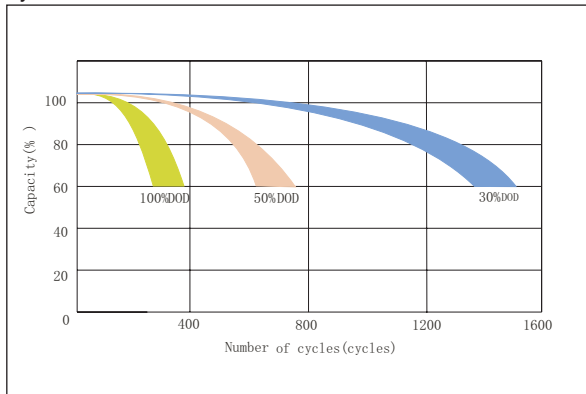
Etrek DM Series **6-DM-76**

12V76Ah(5hr, 68°F20°C)

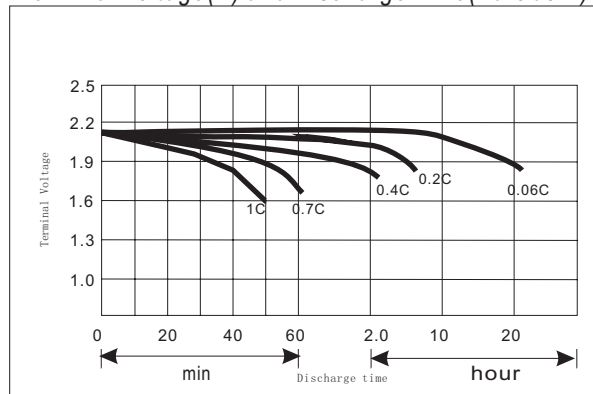
Battery Voltage and Charge Time for Cycle Use



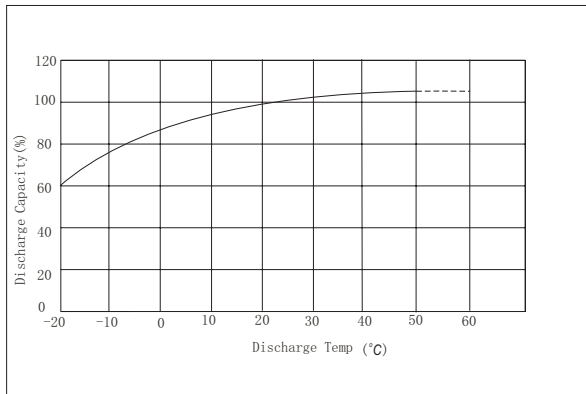
Cycle Service Life



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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