



AGM TECHNOLOGY  
ABT Etrek DM Series

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

## 3-DM-200

6V200Ah(5hr,68 °F20°C)

3-DM-200 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



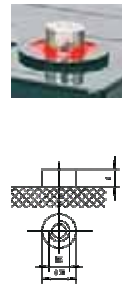
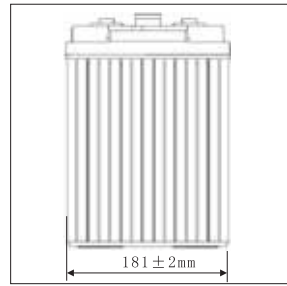
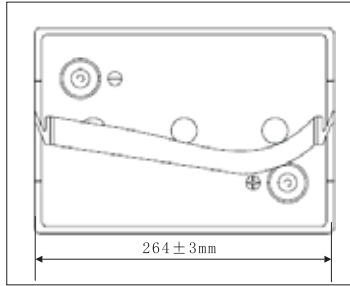
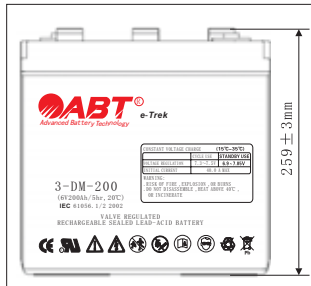
ISO9001



### Specification

Cells Per Unit	3
Voltage Per Unit	6
Capacity	200Ah @5hr-rate to 1.75V Per cell @20°C(68°F)
Weight	Approx. 32.5kg(71.5lbs)
Maximum Discharge Current	68°F(20°C) 1000A
Internal Resistance	Approx. 1.3 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	6.9 to 7.05 VDC/unit Average at 20°C(68°F)
Recommended Maximum Charging Current Limit	30A
Equalization and Cycle Service	7.3 to 7.45 VDC/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



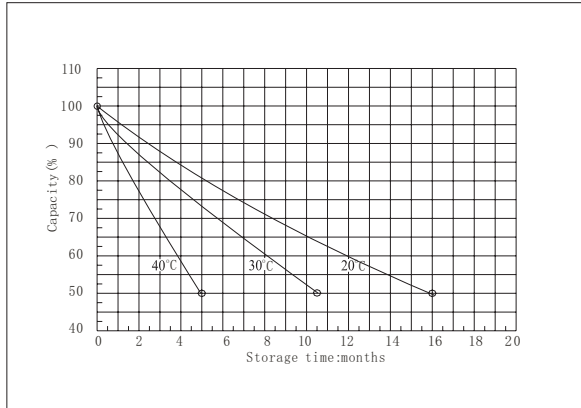
### Constant Current Discharge Data (Amperes at 20°C / 68°F)

End voltage (V/cell)	Discharge time (minute)										
	10	20	30	45	60	90	120	180	300	600	1200
1.6	480	336	235	194	144	106	80	67.2	42	21.8	12.1
1.65	470	324	230	190	139	102	79.2	64.8	41.8	21.7	12.1
1.7	461	312	226	185	134	98.4	78.5	62.4	40.3	21.6	12
1.75	454	300	221	180	130	94.8	78	60	40	21.6	12

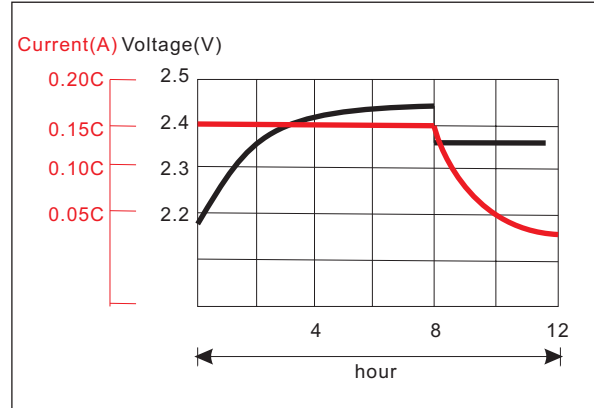
### Constant Power Discharge Data (Watts per cell at 20°C / 68°F)

End voltage (V/cell)	Discharge time (minute)										
	10	20	30	45	60	90	120	180	300	600	1200
1.6	850	610	430	358	268	197	149	128	79.8	41.5	23.1
1.65	833	588	422	349	259	190	148	123	79.3	41	23
1.7	816	566	413	340	250	183	147	119	76.6	40.6	22.9
1.75	803	545	404	331	241	177	146	114	75.2	40.1	22.8

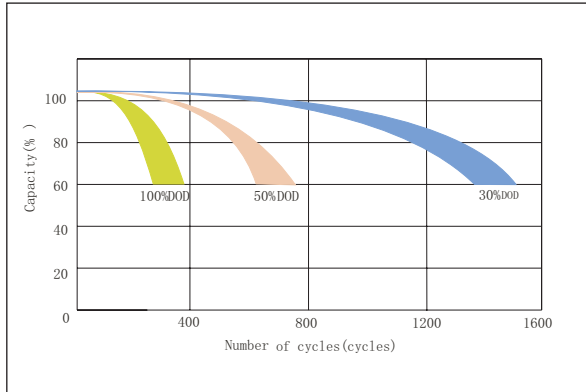
**Capacity Retention Characteristic**



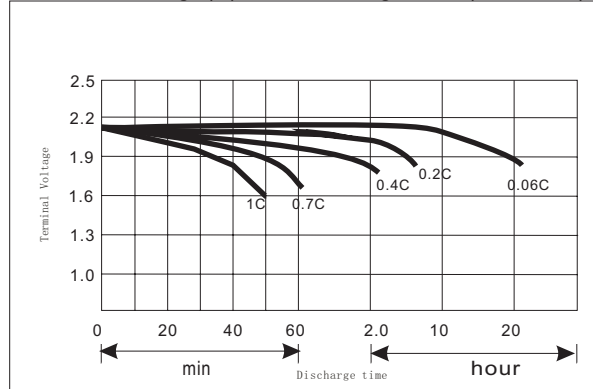
**Battery Voltage and Charge Time for Cycle Use**



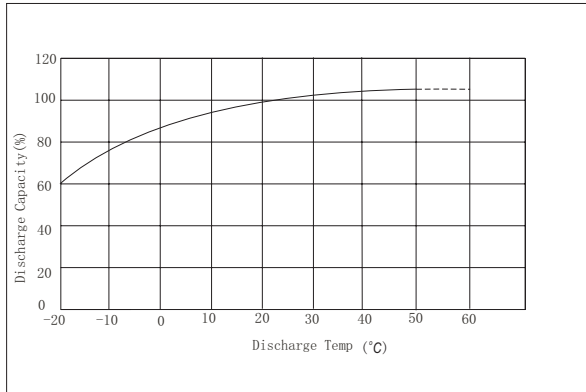
**Cycle Service Life**



**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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