



AGM TECHNOLOGY  
ABT Etrek DM Series

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

## 3-DM-185

6V185Ah(5hr,68 °F20°C)

3-DM-185 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

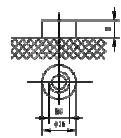
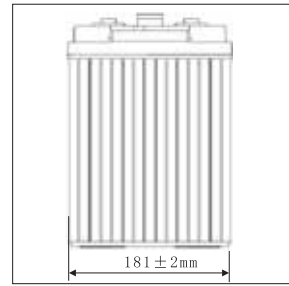
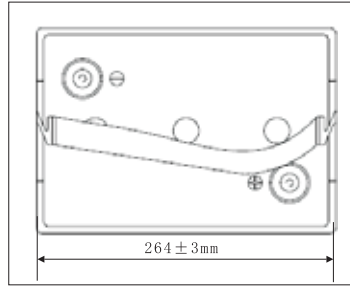
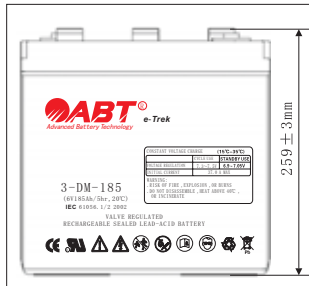
ISO9001



### Specification

Cells Per Unit	3
Voltage Per Unit	6
Capacity	185Ah @5hr-rate to 1.75V Per cell @20°C(68°F)
Weight	Approx. 30kg(66.14lbs)
Maximum Discharge Current	68°F(20°C) 925A
Internal Resistance	Approx. 1.5 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	6.9 t o 7.05 VDC/unit Average at 20°C(68°F)
Recommended Maximum Charging Current Limit	27A
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



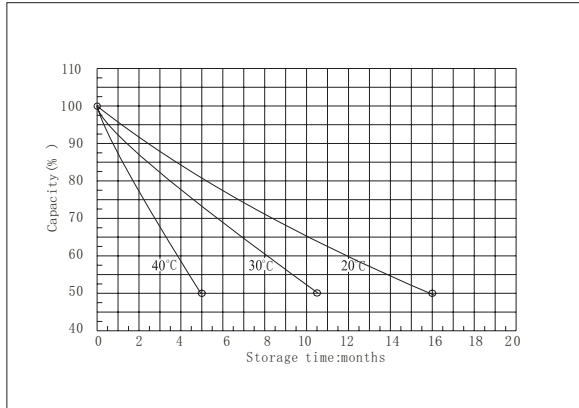
### Constant Current Discharge Data ( Amperes at 20°C / 68°F )

End voltage (V/cell)	Discharge time (minute)										
	10	20	30	45	60	90	120	180	300	600	1200
1.6	450	315	221	182	135	99	75	63	39.4	20.9	11.4
1.65	441	304	216	178	131	95.6	74.3	60.8	39.2	20.8	11.3
1.7	432	293	212	173	126	92.3	73.6	58.5	37.8	20.7	11.3
1.75	425	281	207	169	122	88.9	73.1	56.3	37	20.7	11.3

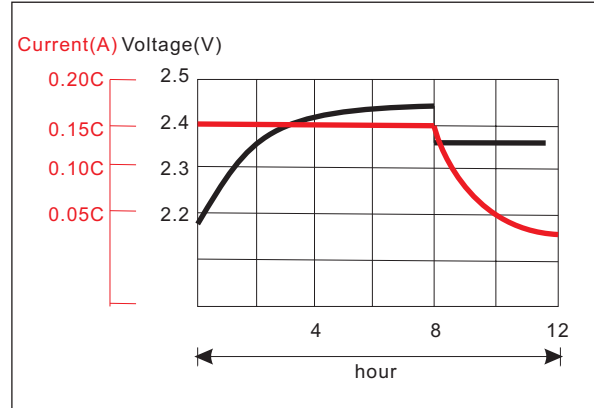
### Constant Power Discharge Data ( Watts per cell at 20°C / 68°F )

End voltage (V/cell)	Discharge time (minute)										
	10	20	30	45	60	90	120	180	300	600	1200
1.6	797	572	404	335	251	184	140	120	74.8	38.9	21.6
1.65	781	551	395	327	242	178	139	115	74.4	38.5	21.5
1.7	765	531	387	319	234	172	138	111	71.8	38	21.5
1.75	753	510	379	311	226	166	137	107	70.5	37.6	21.4

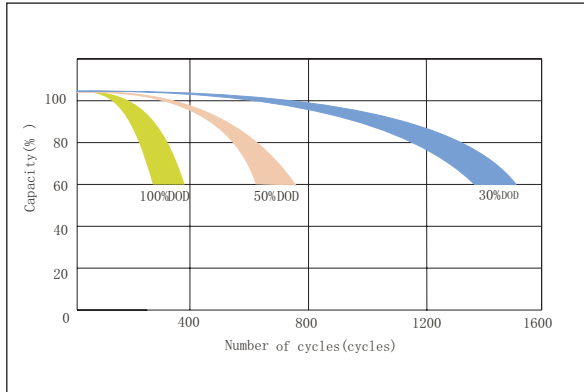
**Capacity Retention Characteristic**



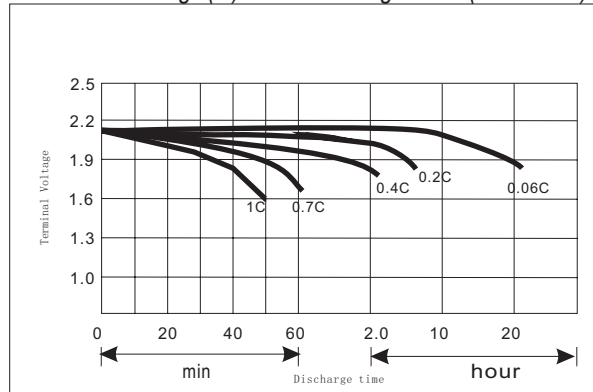
**Battery Voltage and Charge Time for Cycle Use**



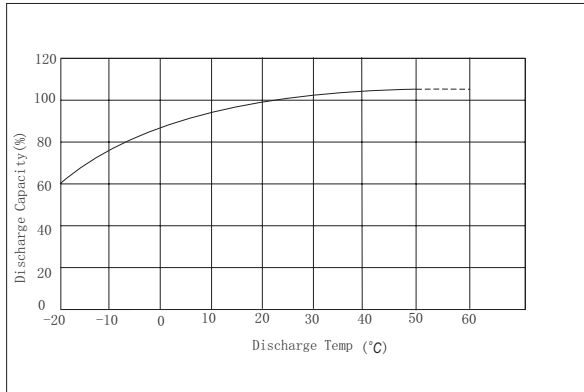
**Cycle Service Life**



**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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