



GEL TECHNOLOGY
ABT Etrek DMJ Series

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

3-DMJ-190

6V190Ah(5hr,68 °F20°C)

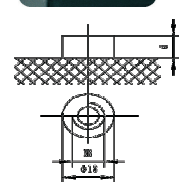
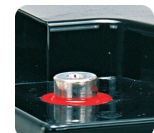
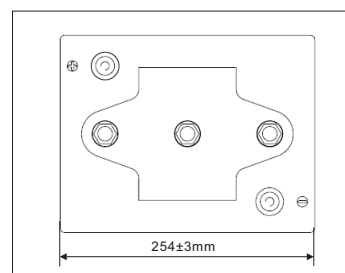
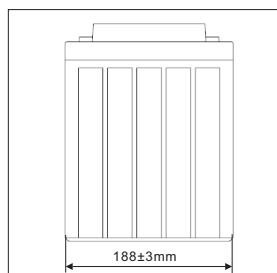
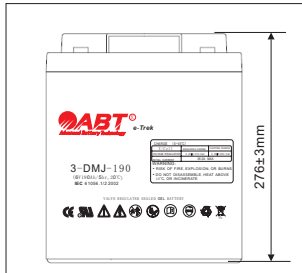
3-DMJ-190 is a Deep Cycle battery with the capability of high output power, especially for EV use. As with all ABT batteries, all are rechargeable, highly efficient, leak proof and maintenance free.



Specification

Cells Per Unit	3
Voltage Per Unit	6
Capacity	190Ah @5hr-rate to 1.75V Per cell @20°C / (68°F)
Weight	Approx.33.1Kg(72.9lbs)
Maximum Discharge Current (5s)	68°F(20°C) 900A
Internal Resistance	Approx. 2. 2 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	6.99 to 7.11 VDC/unit Average at 20°C / (68°F)
Recommended Maximum Charging Current Limit	38.0A
Equalization and Cycle Service	7.32 to 7.38VDC/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



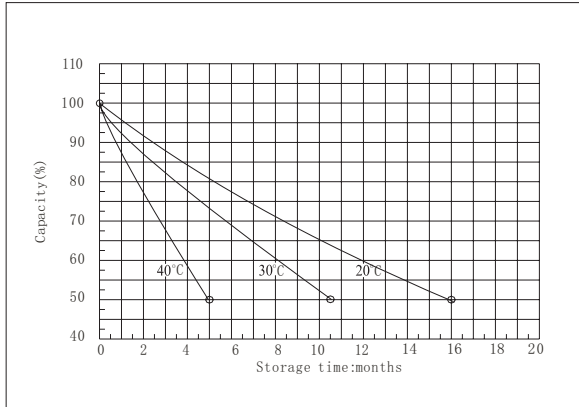
Constant Current Discharge Data (Amperes at 20°C / 68°F)

End voltage (V/cell)	Discharge time (minute)										
	10	20	30	45	60	90	120	180	300	600	1200
1.60	528	316	246	187	145	106	86.1	60.6	38.3	21.1	11.6
1.65	517	311	244	186	144	106	85.9	60.4	38.2	21.1	11.6
1.70	506	307	243	185	144	105	85.6	60.3	38.1	21.0	11.5
1.75	496	302	239	182	143	104	85.0	60.0	38.0	21.0	11.5

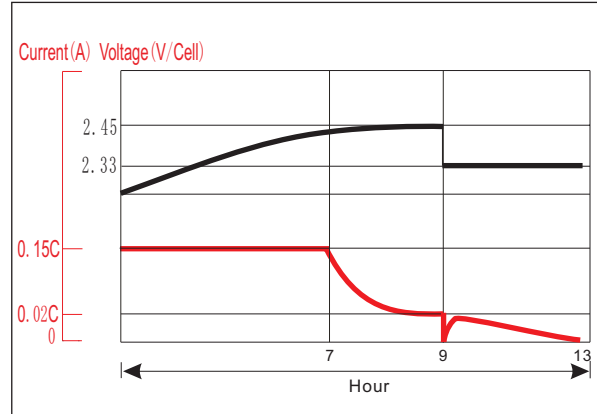
Constant Power Discharge Data (Watts per cell at 20°C / 68°F)

End voltage (V/cell)	Discharge time (minute)										
	10	20	30	45	60	90	120	180	300	600	1200
1.60	983	601	476	361	281	206	169	119	75.8	42.3	23.5
1.65	965	593	473	360	281	206	168	119	75.7	42.2	23.4
1.70	947	588	471	360	280	205	168	118	75.6	42.2	23.3
1.75	930	579	465	356	279	204	167	117	75.5	42.1	23.2

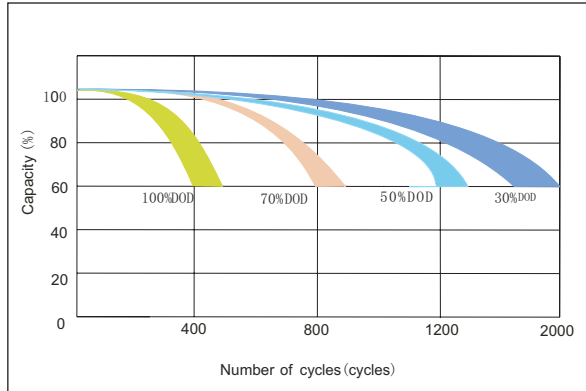
Capacity Retention Characteristic



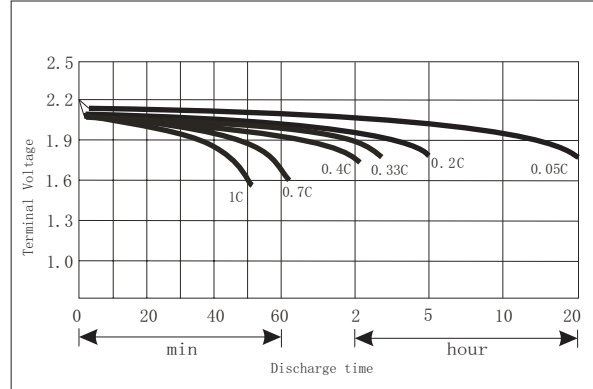
Battery Voltage and Charge Time for Cycle Use



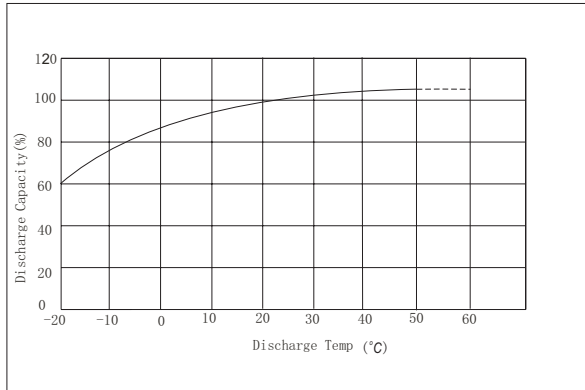
Cycle Service Life



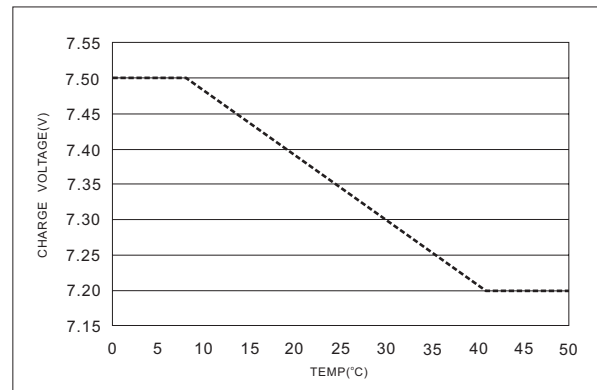
Terminal Voltage (V) and Discharge Time (20°C/68°F)



Discharge Capacity Vs Temperature



Charge Voltage Of Diffent Temperature



Charging Procedures

Charge	Charge Voltage (V/Cell)			Max. Charge Current
	Temperature	Set Point	Allowable Ranges	
Equalizing Charge	20°C / (68°F)	2.45	2.44~2.46	0.20C
Floating Charge	20°C / (68°F)	2.35	2.33~2.37	0.02C

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

SHANDONG SACRED SUN POWER SOURCES CO.,LTD.
Add: 1, Shengyang Road, Qufu 273100 Shandong, China
Tel: +86-537-4438 666 extn 6027 Fax: +86-537-4411 936
Website: <http://www.abtbatt.com> Email: sales@abtbatt.com

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

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