

Datasheet Sealed Lead-Acid Battery General Purpose

Specification

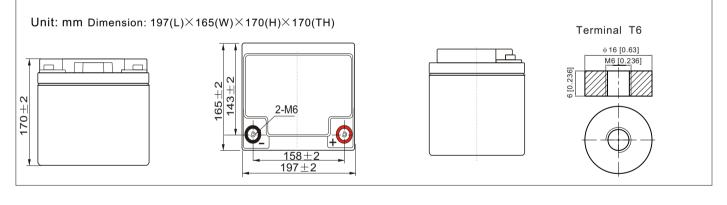
Cells Per Unit	6
Voltage Per Unit	12
Capacity	38.0Ah@10hr-rate to 1.80Vper cell @25°C
Weight	Approx12.20kg
Max. Discharge Current	456 A(5 sec)
Internal Resistance	Approx 10mΩ
Operating Temp.Range	Discharge : -15~50°C (5~122°F) Charge : 0~40°C (32~104°F) Storage : -15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Float charging Voltage	13.5 to 13.8 VDC/unit Average at 25°C
Recommended Maximum Charging Current Limit	11.4A
Equalization and Cycle Service	14.4 to 15.0 VDC/unit Average at 25°C
Self Discharge	The batteries can be stored for more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using.
Terminal	Т6
Container Material	A.B.S. (UL94-HB) , Flammability resistance of UL94-V0 can be available upon request.

537-5517(12V38Ah)

Applications

- ♦ All purpose
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Emergency light
- Railway signal
- ♦ Aircraft signal
- Alarm and security system
- Electronic apparatus and equipment
- Communication power supply
- DC power supply
- Auto control system

Dimensions



Constant	onstant Current Discharge Characteristics : A (25 °C)											Amps			
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	65.0	51.1	43.5	36.4	28.9	21.9	17.9	11.4	9.02	7.37	5.94	5.17	4.20	3.59	1.96
1.80V/cell	87.3	65.3	52.5	43.0	34.1	25.4	20.1	12.5	9.71	7.87	6.38	5.55	4.45	3.80	2.00
1.75V/cell	98.4	71.8	57.4	46.2	35.4	26.4	21.0	12.9	9.89	8.04	6.54	5.70	4.53	3.84	2.02
1.70V/cell	108.4	78.2	61.3	48.6	36.9	27.5	21.7	13.4	10.2	8.26	6.71	5.82	4.59	3.88	2.03
1.65V/cell	119.5	84.4	65.1	51.6	38.9	28.1	22.4	13.8	10.6	8.54	6.90	5.95	4.67	3.96	2.06
1.60V/cell	131.8	91.7	69.7	55.0	41.0	29.3	23.2	14.3	10.9	8.81	7.13	6.08	4.71	4.00	2.07

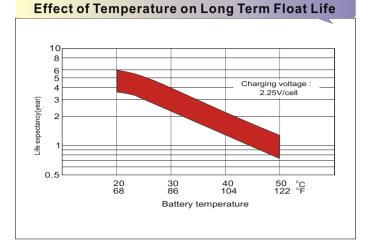
constant Power Discharge Characteristics : W (25 °C)											Watts				
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	118.9	94.5	81.1	68.6	55.1	42.1	34.6	22.2	17.6	14.4	11.6	10.2	8.29	7.10	3.88
1.80V/cell	157.9	119.3	96.7	79.9	64.0	48.5	38.5	24.0	18.8	15.3	12.4	10.9	8.77	7.51	3.91
1.75V/cell	174.3	128.9	104.3	85.1	65.9	49.9	40.1	24.8	19.1	15.6	12.7	11.1	8.90	7.57	3.94
1.70V/cell	186.6	137.4	109.9	88.7	68.2	51.7	41.2	25.8	19.6	16.0	13.0	11.3	9.01	7.64	4.01
1.65V/cell	202.8	146.9	115.9	93.6	71.4	52.5	42.3	26.3	20.3	16.5	13.3	11.6	9.13	7.79	4.06
1.60V/cell	218.5	155.8	121.9	98.6	74.8	54.4	43.6	27.1	20.9	16.9	13.7	11.8	9.20	7.86	4.08

RS, Professionally Approved Products, gives you professional quality parts across all products categories. Our range has been testified by engineers as giving comparable quality to that of the leading brands without paying a premium price.

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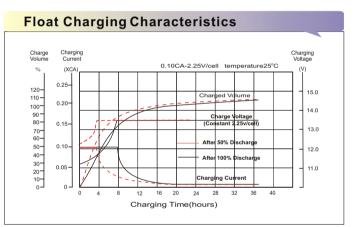


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100 Α 10°C 80 25°C Remaining Capacity(%) в 60 .30°C 4000 40 С 20 0 10 12 Storage Time(Months) No supplementary charge required (Carry out supplementary charge before use if 100% capacity is required.) Supplementary charge required before use.Optional charging way as below: 1.Charged for above 3 days at limted current 0.25CA and constant volatge 2.25V/cell. 2.Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/cell. 3.Charged for 8~10hours at limted current 0.05CA. в

- C Avoid this storage period unless regular Top charge. Supplementary charge may often fail to recover the full capacity



Available Capacity Subject to Temperature

Battery	Туре	-20 ℃	-10 ℃	0 °C	5 ℃	10 ℃	20 ℃	25 ℃	30 ℃	40 ℃	45 ℃
AGM Battery	6V&12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.80V	1.75V	1.60V
Discharge Current (A)	(A) ≤0.2C	0.2C< (A) <1.0C	(A) ≥1.0C

Charge the batteries at least once every six months, if they are stored at 25°C.

Charging Method:

Constant Voltage -0.2Cx2h+2.4~2.45V/Cellx24h,Max. Current 0.3CA Constant Current 0.1C until the voltage reaching 14.4V, then 0.1Cx4h

Maintenance & Cautions

Float Service:	
\blacklozenge It is recommended to check battery/Float voltage each month.	
Equalisation charge:	
\blacklozenge Equalisation charging is recommended once every 3 to 6 months	s using.
◆Discharge 100% rated capacity.	
♦ Charge 2.35v/cell constant voltage, maximum 0.3CA 24hrs.	
Cyclic Service:	
◆Temperature compensation for varying temperatures:	
-Charge voltage -3mV/Cell/degC from 25degC norm.	
◆The service life of your battery will be affected by:	
-The number of discharge cycles, depth of discharge, ambient	
temperature and charging voltage.	

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