



## **Datasheet**

# Sealed Lead-Acid Battery Deep Cycle

### **Specification**

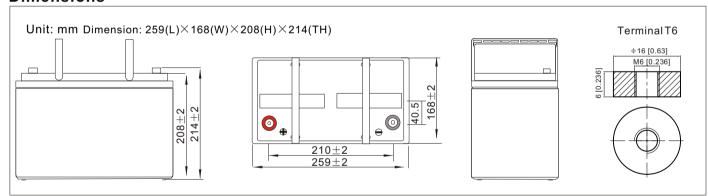
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Cells Per Unit	6
Voltage Per Unit	12
Capacity	75.0Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx 22.3kg
Max. Discharge Current	900 A(5 sec)
Internal Resistance	Approx 6.6mΩ
Operating Temp.Range	Discharge : -15∼50°C (5∼122°F) Charge : 0∼40°C (32∼104°F) 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	22.5A
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.

## Applications

727-0439(12V75Ah)

- Electric tools
- ♦ Mobility
- ♦ Lawn mowers
- Golf trolleys and golf cart
- Portable apparatus, lights and instruments;
- Electric toys
- Emergency lighting
- Fire and security alarms
- ◆ Portable power
- ♦ Wheelchairs
- ♦ Medical equipments.
- Solar energy

#### **Dimensions**



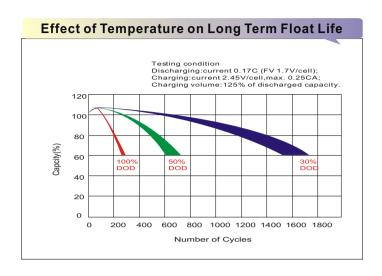
Constant Current Discharge Characteristics : A (25 °C)											Amps			
F.V/Tim	e 10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/ce	II 109.8	92.4	80.7	58.1	46.1	37.4	23.3	18.1	14.7	11.9	10.4	8.50	7.08	3.98
1.80V/ce	II 140.3	111.6	95.4	68.6	53.7	41.9	25.4	19.5	15.7	12.8	11.2	9.02	7.50	4.02
1.75V/ce	II 154.2	121.9	102.7	71.2	55.7	43.9	26.3	19.9	16.0	13.2	11.5	9.17	7.58	4.06
1.70V/ce	168.0	130.2	107.9	74.1	57.9	45.3	27.4	20.4	16.5	13.5	11.7	9.30	7.65	4.13
1.65V/ce	II 181.4	138.4	114.6	78.1	59.4	46.8	28.1	21.3	17.0	13.9	12.0	9.45	7.81	4.19
1.60V/ce	II 196.9	148.1	122.1	82.5	61.9	48.5	29.1	22.0	17.6	14.3	12.2	9.54	7.89	4.21

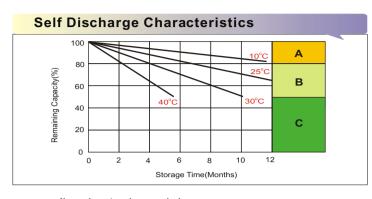
Constant	Power	Discha	rge Cha	racteri	stics : l	N (25 °C	:)							Watts
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	204.9	174.2	153.9	111.6	89.3	72.7	45.3	35.4	28.8	23.4	20.6	16.8	14.0	7.97
1.80V/cell	258.3	207.3	179.1	130.1	103.0	80.9	49.2	37.9	30.6	25.1	22.0	17.8	14.8	8.03
1.75V/cell	280.3	224.3	191.1	134.4	106.3	84.4	50.9	38.5	31.2	25.7	22.6	18.1	15.0	8.10
1.70V/cell	301.3	237.7	199.7	139.4	110.3	86.8	52.7	39.5	31.9	26.3	23.0	18.3	15.1	8.24
1.65V/cell	322.8	251.1	211.1	146.4	112.6	89.4	54.1	41.1	33.0	27.0	23.5	18.6	15.4	8.34
1.60V/cell	344.5	265.4	222.6	153.0	116.3	91.8	55.5	42.1	33.9	27.7	23.9	18.8	15.6	8.37

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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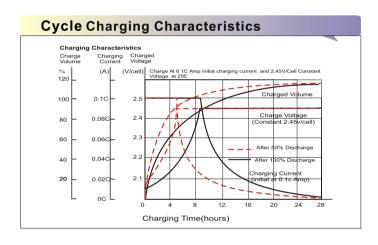


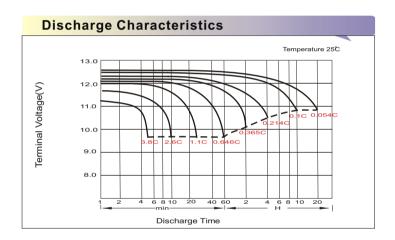


A No supplementary charge required (Carry out supplementary charge before use if 100% capacity is required.)

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.

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℃	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	-0.2Cx2h+0.1CAx 12h
Fast	-0.2Cx2h+0.3CAx4.0h

#### Maintenance & Cautions

#### Float Service:

♦ It is recommended to check battery/Float voltage each month.

#### Equalisation charge:

- ◆Equalisation charging is recommended once every 3 to 6 months using.
- ◆Discharge 100% rated capacity.
- ♦ Charge 2.35v/cell constant voltage, maximum 0.3CA 24hrs.

#### Cyclic Service:

- ◆Temperature compensation for varying temperatures:
- -Charge voltage -5mV/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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