



Datasheet Sealed Lead-Acid Battery General Purpose Specification

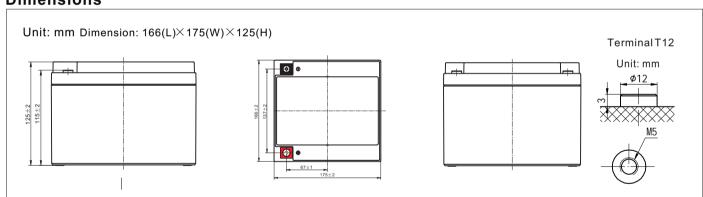
150-1559(12V24.0Ah)

Cells Per Unit	6
Voltage Per Unit	12
Capacity	24.0Ah@20hr-rate to 1.80V per cell @25°C
Weight	Approx 7.2 kg
Max. Discharge Current	360A(5 sec)
Internal Resistance	Approx 14m Ω
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	13.5to 13.8VDC/unit Average at 25°C
Recommended Maximum Charging Current Limit	7.2A
Equalization and Cycle Service	14.4to15.0 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	T12
Container Material	A.B.S. (UL94-V0) , Flammability resistance of UL94-HB can be available upon request.

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

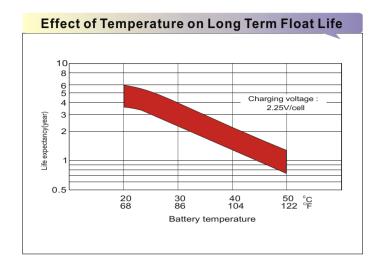


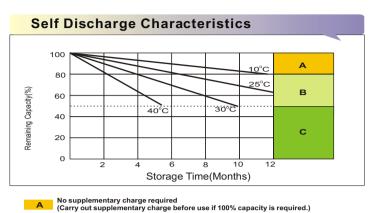
Constant Current Discharge Characteristics : A (25 °C)															
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	45.7	35.1	29.1	25.1	19.4	14.32	12.07	7.14	5.58	4.54	3.70	3.21	2.59	2.16	1.19
1.80V/cell	61.3	44.8	35.1	29.7	22.9	16.7	13.52	7.79	6.01	4.85	3.97	3.45	2.75	2.23	1.20
1.75V/cell	69.2	49.3	38.4	32.0	23.8	17.3	14.14	8.08	6.12	4.96	4.08	3.54	2.80	2.29	1.21
1.70V/cell	76.2	53.7	41.0	33.6	24.8	18.0	14.59	8.28	6.29	5.09	4.18	3.61	2.84	2.34	1.23
1.65V/cell	84.0	58.0	43.6	35.7	26.1	18.4	14.93	8.40	6.56	5.26	4.30	3.69	2.88	2.39	1.25
1.60V/cell	92.6	62.9	46.6	38.0	27.6	19.2	15.07	8.76	6.76	5.43	4.44	3.77	2.91	2.41	1.26

Constant	t Powe	r Disch	arge C	haracte	eristics	: W (2	5°C)								
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	83.6	64.8	54.3	47.4	37.0	27.5	23.3	13.9	10.9	8.88	7.26	6.32	5.12	4.28	2.35
1.80V/cell	111.0	81.9	64.7	55.2	43.0	31.8	25.9	15.0	11.6	9.43	7.76	6.75	5.41	4.41	2.37
1.75V/cell	122.5	88.5	69.8	58.8	44.3	32.6	27.0	15.5	11.8	9.60	7.93	6.91	5.49	4.52	2.39
1.70V/cell	131.1	94.3	73.4	61.3	45.9	33.8	27.8	15.9	12.1	9.84	8.12	7.04	5.56	4.61	2.44
1.65V/cell	142.5	100.8	77.5	64.7	48.0	34.4	28.2	16.0	12.6	10.1	8.32	7.18	5.64	4.70	2.47
1.60V/cell	153.6	107.0	81.5	68.1	50.3	35.6	28.3	16.6	12.9	10.4	8.56	7.31	5.68	4.74	2.48









Supplementary charge before use in 100% capacity is required.)

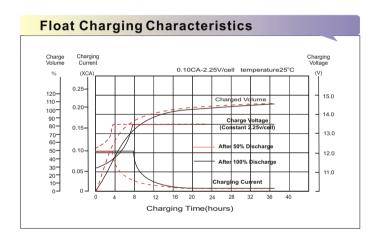
Supplementary charge required before use. Optional charging way as below:

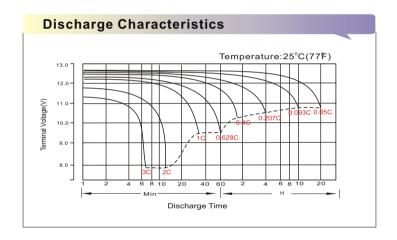
1. Charged for above 3 days at limted current 0.25CA and constant volatge 2.25V/cell.

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	0.1C until the voltage reaching 14.4V, then 0.1Cx4h

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 -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.

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.