



DC12-260A (12V260Ah)

DC (Deep Cycle) series is specially designed for frequent cyclic discharge. By using strong grids and specially designed active material, the DC series battery offers 30% more cyclic life than the standby series. It is suitable for solar energy systems, marine and RV etc.



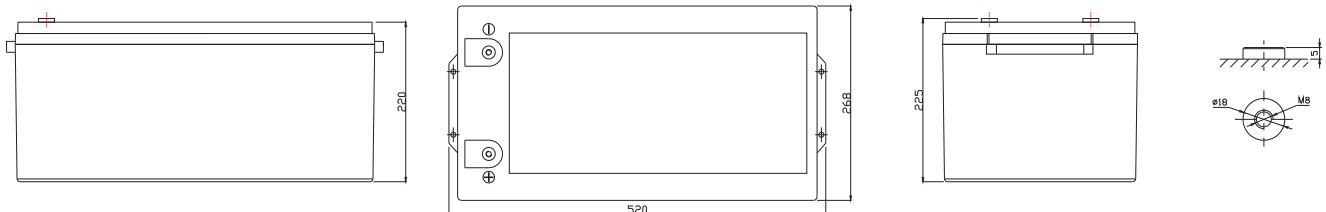
Specification

| | |
|--------------------------------------|---|
| Cells Per Unit | 6 |
| Voltage Per Unit | 12 |
| Capacity | 260Ah@10hr-rate to 1.80V per cell @25°C |
| Weight | Approx. 72.5 Kg (Tolerance ± 1.5%) |
| Max. Discharge Current | 2600 A (5 sec) |
| Internal Resistance | Approx. 3.5 mΩ |
| Operating Temperature Range | Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C |
| Normal Operating Temperature Range | 25°C ± 5°C |
| Float charging Voltage | 13.6 to 13.8 VDC/unit Average at 25°C |
| Recommended Maximum Charging Current | 78 A |
| Equalization and Cycle Service | 14.6 to 14.8 VDC/unit Average at 25°C |
| Self Discharge | RITAR Valve Regulated Lead Acid (VRLA) 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 | Terminal F14 |
| Container Material | A.B.S. UL94-HB, UL94-V0 Optional. |



Dimensions

Unit: mm Dimension: 520(L) × 268 (W) × 220(H)



Constant Current Discharge Characteristics: A (25°C)

| F.V/Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 9.60V | 703.5 | 532.5 | 434.7 | 256.0 | 162.3 | 100.2 | 68.09 | 54.90 | 45.58 | 30.02 | 27.06 | 14.32 |
| 10.0V | 683.2 | 506.7 | 425.7 | 252.7 | 160.1 | 98.18 | 66.83 | 54.12 | 45.17 | 29.90 | 26.79 | 14.06 |
| 10.2V | 662.9 | 488.8 | 419.0 | 248.9 | 158.6 | 97.14 | 66.24 | 53.58 | 44.87 | 29.63 | 26.53 | 13.79 |
| 10.5V | 595.3 | 451.1 | 399.0 | 242.0 | 156.7 | 95.87 | 65.65 | 52.79 | 44.50 | 29.37 | 26.26 | 13.52 |
| 10.8V | 537.3 | 411.3 | 367.8 | 234.0 | 154.5 | 95.08 | 64.88 | 50.98 | 44.28 | 29.25 | 26.02 | 13.38 |
| 11.1V | 458.8 | 367.6 | 329.9 | 225.1 | 150.8 | 91.25 | 63.61 | 50.25 | 43.96 | 29.01 | 25.72 | 12.84 |

Constant Power Discharge Characteristics: W (25°C)

| F.V/Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
|----------|------|-------|-------|-------|------|------|-------|-------|-------|-------|-------|-------|
| 9.60V | 7277 | 5671 | 4781 | 2930 | 1881 | 1174 | 801.6 | 657.2 | 546.0 | 359.5 | 324.4 | 172.5 |
| 10.0V | 7133 | 5498 | 4704 | 2900 | 1863 | 1160 | 789.7 | 647.9 | 541.1 | 358.1 | 321.9 | 169.5 |
| 10.2V | 7052 | 5353 | 4651 | 2875 | 1852 | 1152 | 786.3 | 641.9 | 537.8 | 355.4 | 319.0 | 166.4 |
| 10.5V | 6420 | 4984 | 4437 | 2816 | 1841 | 1137 | 779.9 | 633.2 | 533.5 | 352.4 | 315.9 | 163.3 |
| 10.8V | 5847 | 4594 | 4101 | 2750 | 1817 | 1129 | 771.1 | 611.8 | 531.1 | 350.9 | 312.8 | 161.7 |
| 11.1V | 5136 | 4154 | 3691 | 2674 | 1790 | 1086 | 758.2 | 603.1 | 529.1 | 348.4 | 309.4 | 155.9 |

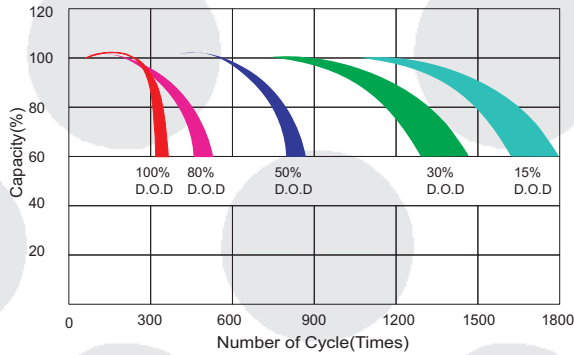
All mentioned values are average values (Tolerance ±2%).

DC12-260A

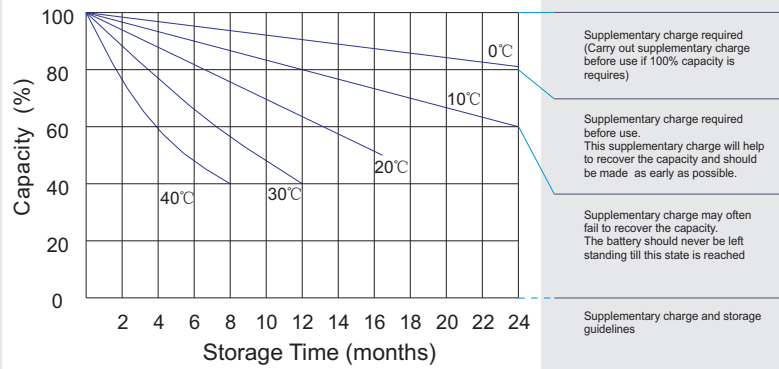
12V260Ah



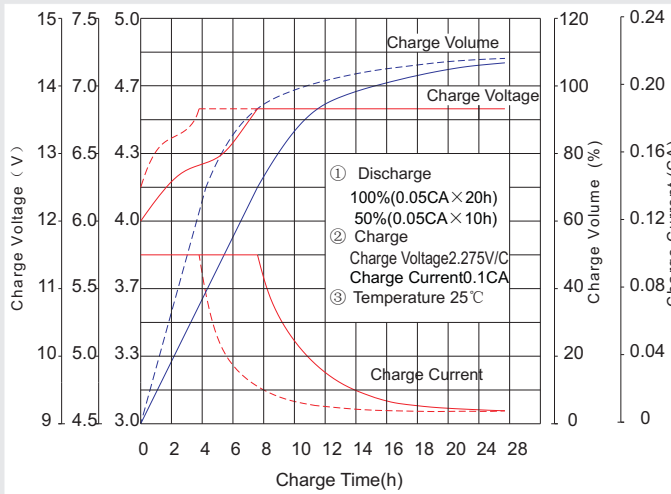
Life characteristics of cyclic use



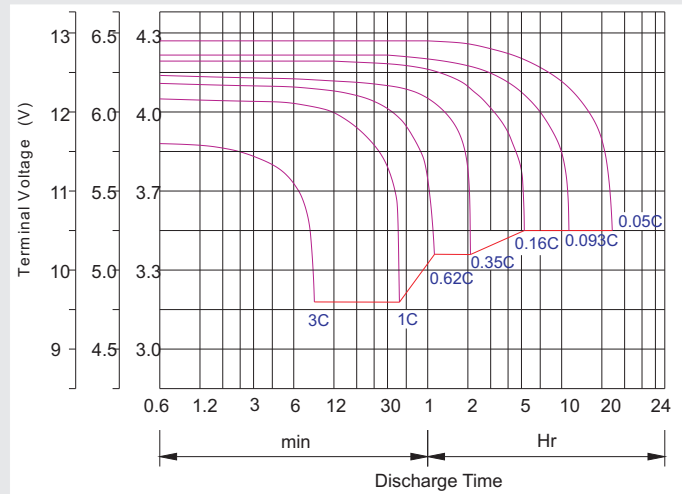
Storage characteristic



Charge characteristic Curve for standby use



Discharge characteristic curve



Capacity Factors With Different Temperature

| Battery Type | | -20°C | -10°C | 0°C | 5°C | 10°C | 20°C | 25°C | 30°C | 40°C | 45°C |
|--------------|--------|-------|-------|-----|-----|------|------|------|------|------|------|
| GEL Battery | 6V&12V | 50% | 70% | 83% | 85% | 90% | 98% | 100% | 102% | 104% | 105% |
| | 2V | 60% | 75% | 85% | 88% | 92% | 99% | 100% | 103% | 105% | 106% |
| AGM Battery | 6V&12V | 46% | 66% | 76% | 83% | 90% | 98% | 100% | 103% | 107% | 109% |
| | 2V | 55% | 70% | 80% | 85% | 92% | 99% | 100% | 104% | 108% | 110% |

Discharge Current VS. Discharge Voltage

| | | | |
|---------------------------------|------------|-------------------|------------|
| Final Discharge Voltage V /cell | 1.75V | 1.70V | 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 0.2C |
| Constant Current | -0.2Cx2h+0.1Cx12h |
| Fast | -0.2Cx2h+0.2Cx6h |

| | | | |
|----------|-----------------------|------------------|-----------------------|
| Bolt | M5 | M6 | M8 |
| Terminal | F3 F4 F13 F18 T25 T26 | F8 F11 F12-1 F15 | F5 F9 F10 F12 F14 F16 |
| Torque | 6~7N·m | 8~10N·m | 10~12N·m |

Maintenance & Cautions

Cycle service

- ※ Avoid battery over discharge, especially battery series connection use.
- ※ Charged with recommend voltage, ensure battery can be full recharged.
- In general, recharge capacity should be 1.1-1.15 times discharge capacity.
- ※ Effect of temperature on float charge voltage: -4mV/°C/Cell.
- ※ There are a number of factors that will affect the length of cyclic service.
- The most significant are depth of discharge, ambient temperature, discharge rate, and the manner in which the battery is recharged.
- Generally specking, the most important factors is depth of discharge.