



CHARACTERISTICS



Compact size ideal for any type of use.

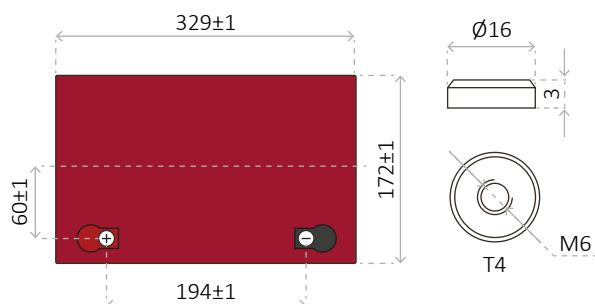
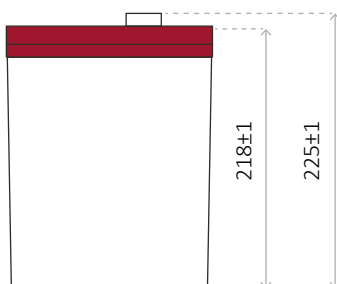


Great performance due to its Deep Cycle technology.



Perfect to use as accumulator in photovoltaic installations.

DIMENSIONS



AGM DEEP CYCLE BATTERY 12V 90 AH

DEEP CYCLE SERIES BATTERY

DC series VRLA batteries are superior Deep Cycle design with thick plates, high-density active materials and slightly stronger electrolyte, which can withstand repeated deep cyclic applications. Deep Cycle series batteries are the special design batteries with 10 years floating design life at 25°C. Meet with IEC, BS,JIS and Eurobat standard, UL(MH62092), CE approved.



APPLICATION

- Emergency Power System
- Communication equipment
- Telecommunication systems
- Uninterruptible power supplies
- Power tools
- Marine equipment
- Medical equipment
- Solar and wind power system

GENERAL FEATURES

- Safety Sealing
- Non-spillable construction
- High power density
- Excellent recovery from Deep discharge
- Thick plates and high active materials
- Longer life and low self-discharge design

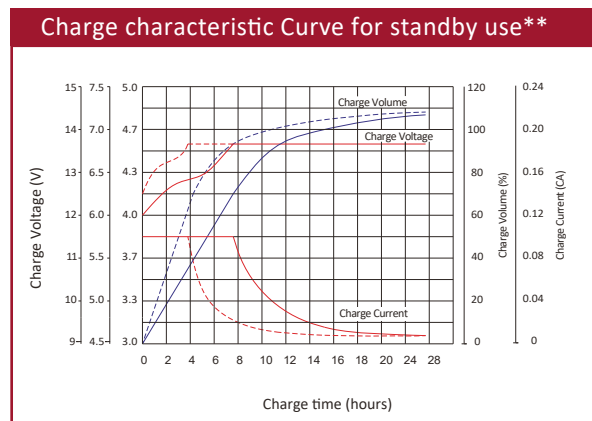
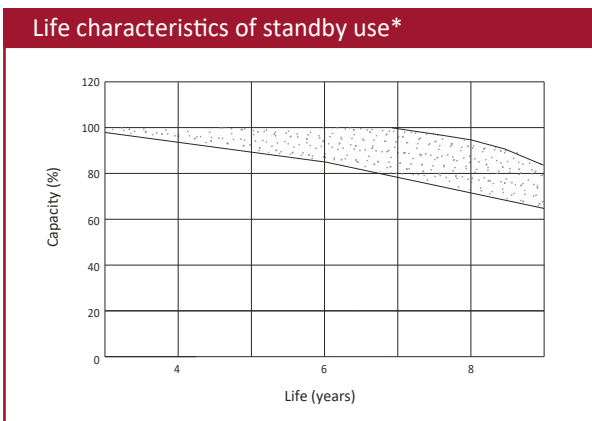
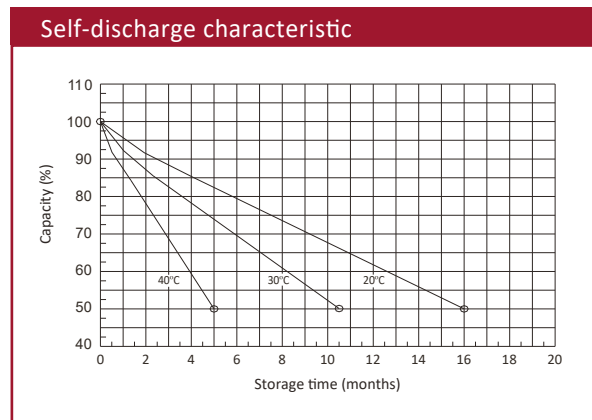
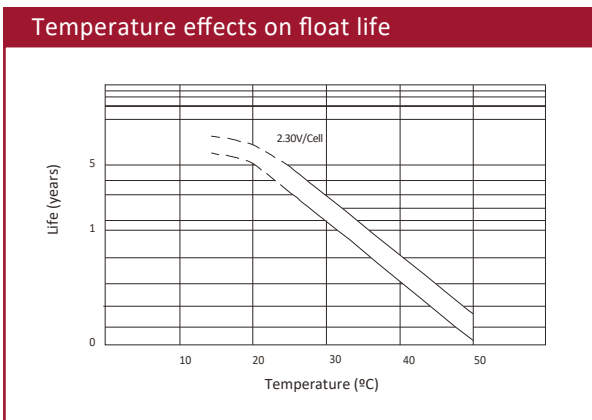
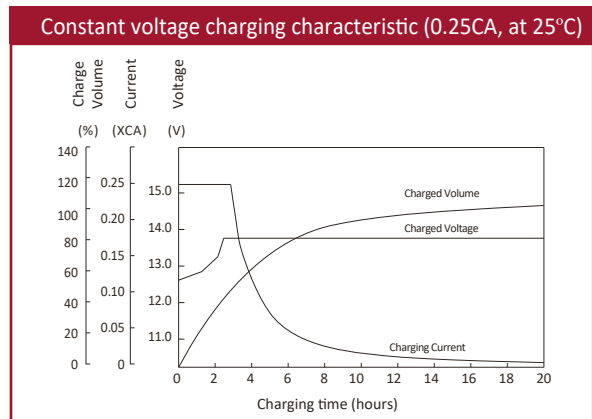
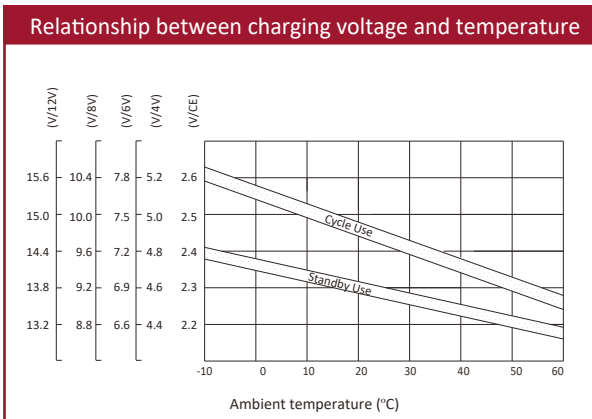
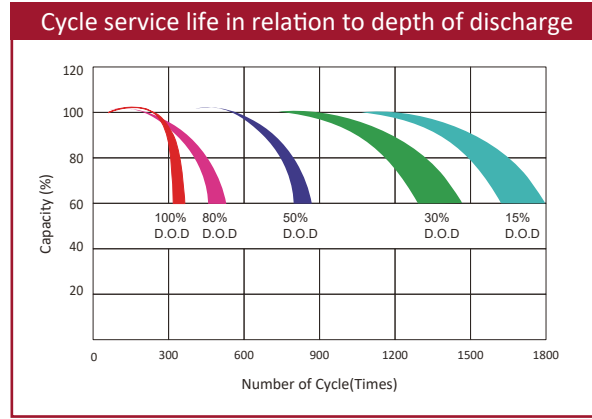
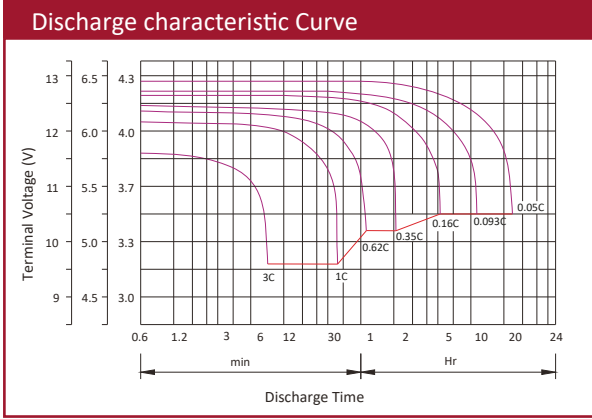
TECHNICAL SPECIFICATIONS

| | | | | | | | |
|---|--|--|--|---|-------------------------|-----------------------------|---------------------------|
| BATTERY MODEL | Nominal voltage | | | 12V | | | |
| | Rated capacity (100 hour rate) | | | 90Ah | | | |
| | Cells Per battery | | | 6 | | | |
| DIMENSION | Length 329 mm | Width 172 mm | Height 218 mm | Total Height 225 mm | | | |
| APPROX. WEIGHT | 25.8 kg ± 3% | | | | | | |
| CAPACITY @ 25°C | 10 hour rate (8A, 10.8V) 80 Ah | 5 hour rate (12.8A, 10.5V) 64 Ah | 3 hour rate (20A, 10.2V) 60 Ah | 1 hour rate (48A, 9.6V) 48 Ah | | | |
| MAX. DISCHARGE CURRENT | 800 A (5 sec.) | | | | | | |
| INTERNAL RESISTANCE | Full charged Vat 25°C: Approx. 4.4mΩ | | | | | | |
| CAPACITY AFFECTED BY TEMP. (10 HR) | 40°C 102% | 25°C 100% | 0°C 85% | -15°C 65% | | | |
| SELF DISCHARGE @25°C | After 3 months storage 91% | | After 6 months storage 82% | After 12 months storage 64% | | | |
| CHARGE METHOD @25°C | Cycle Use 14.1-14.4V (Initial charging current less than 24A) | | | Float Use 13.50-13.80V | | | |
| CONSTRUCTION | Container ABS (UL94-HB) / Flame retardant ABS (UL94-V0) | Electrolyte Sulfuric acid | Separator Fiber glass | Positive Lead dioxide | Negative Lead | Safety valve EPDR | Terminal Copper |

BATTERY DISCHARGE TABLE

CONSTANT CURRENT (AMP) AND CONSTANT POWER (WATT) DISCHARGE TABLE AT 25 °C

| F.V / TIME | 5 min | 10 min | 15 min | 30 min | 1 hr | 2 hr | 3 hr | 4 hr | 5 hr | 8 hr | 10 hr | 20 hr | |
|------------|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 9.60 | A | 256.00 | 169.00 | 136.00 | 91.20 | 48.00 | 28.00 | 20.60 | 16.00 | 16.26 | 11.46 | 9.33 | 5.19 |
| | W | 2644.00 | 1803.00 | 1459.00 | 981.00 | 518.00 | 307.00 | 229.00 | 180.00 | 150.00 | 107.00 | 97.00 | 59.92 |
| 10.20 | A | 248.00 | 152.00 | 128.00 | 87.20 | 45.10 | 26.70 | 20.00 | 15.60 | 13.00 | 11.25 | 9.07 | 4.80 |
| | W | 2650.00 | 1701.00 | 1434.00 | 979.00 | 510.00 | 308.00 | 232.00 | 181.00 | 151.00 | 107.00 | 97.00 | 58.92 |
| 10.50 | A | 240.00 | 136.00 | 112.00 | 81.60 | 43.70 | 26.10 | 19.50 | 15.40 | 12.80 | 11.23 | 9.00 | 4.73 |
| | W | 2622.00 | 1550.00 | 1279.00 | 939.00 | 506.00 | 302.00 | 227.00 | 180.00 | 150.00 | 106.00 | 96.00 | 52.00 |
| 10.80 | A | 231.00 | 128.00 | 104.00 | 75.20 | 42.20 | 25.40 | 19.00 | 15.10 | 12.50 | 11.13 | 8.85 | 4.57 |
| | W | 2596.00 | 1481.00 | 1200.00 | 871.00 | 492.00 | 298.00 | 224.00 | 179.00 | 148.00 | 104.00 | 95.00 | 51.50 |
| 11.10 | A | 224.00 | 120.00 | 96.00 | 67.20 | 40.80 | 24.80 | 18.40 | 14.70 | 12.20 | 10.98 | 8.71 | 4.41 |
| | W | 2536.00 | 1393.00 | 1119.00 | 786.00 | 480.00 | 293.00 | 219.00 | 175.00 | 145.00 | 103.00 | 91.70 | 48.20 |



*Testing conditions:
Floating voltage 2.27 to 2.30V/Cell
Ambient temperature 25°C

**Discharge: 100% (0.05CA 20h)
Charge: Charge Voltage 2.275V/C, Charge Current 0.1CA
Temperature 25°C