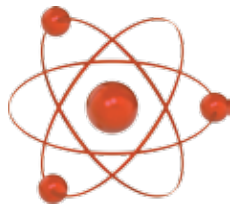


FUSION AGM BATTERIES



AGM DRYCELL CBS8V180AH

Specifications

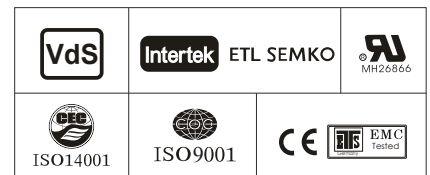
| | | |
|----------------------------------|--|---------------------------|
| Nominal Voltage | 8V | |
| Nominal Capacity (100HR) | 180.0AH | |
| Dimensions | Length | 260 ± 2mm |
| | Width | 180 ± 2mm |
| | Container Height | 255 ± 2mm |
| | Total Height (with Terminal) | 275 ± 2mm |
| Approx Weight | Approx 29.0 kg | |
| Terminal | Twin Marine | |
| Container Material | PP | |
| Rated Capacity | 180.0AH | (100hr, 1.75V/cell, 25°C) |
| | 165.0AH | (20hr, 1.75V/cell, 25°C) |
| | 155.0AH | (10hr, 1.75V/cell, 25°C) |
| | 138.0AH | (5hr, 1.75V/cell, 25°C) |
| Max. Discharge Current | 1320A(5s) | |
| Internal Resistance | Approx 3.0Ω | |
| Operating Temp. Range | Discharge | -20~60°C |
| | Charge | -10~50°C |
| | Storage | -20~60°C |
| Nominal Operating Temp. Range | 25° +/-3°C | |
| Cycle Use | Initial Charging current less than 49.5A | |
| | Voltage 9.6V~9.8V at 20°C | |
| | Temp Coefficient -30mV/°C | |
| Standby Use | No limit on Initial Charging Current | |
| | Voltage 8.8V~9.2V at 20°C | |
| | Temp. Coefficient -20mV/°C | |
| Capacity Affected by Temperature | 40°C | 103% |
| | 25°C | 100% |
| | 0°C | 86% |
| Self Discharge | Fusion CBS Series batteries may be stored for up to 6 months at 20°C-25°C and then a freshening charge is required. For higher temperatures the time interval will be shorter. | |



Applications

- Solar Farm Applications
- Communication systems
- Green energy systems

Fusion 8 Volt CBS Solar Series batteries are a genuine AGM VRLA (Valve Regulated Lead Acid) battery that is completely sealed, spill proof, leak proof and can be used upside down or on their side. The CBS Series is specifically designed for solar & green energy systems and can be used in confined or poorly ventilated spaces.



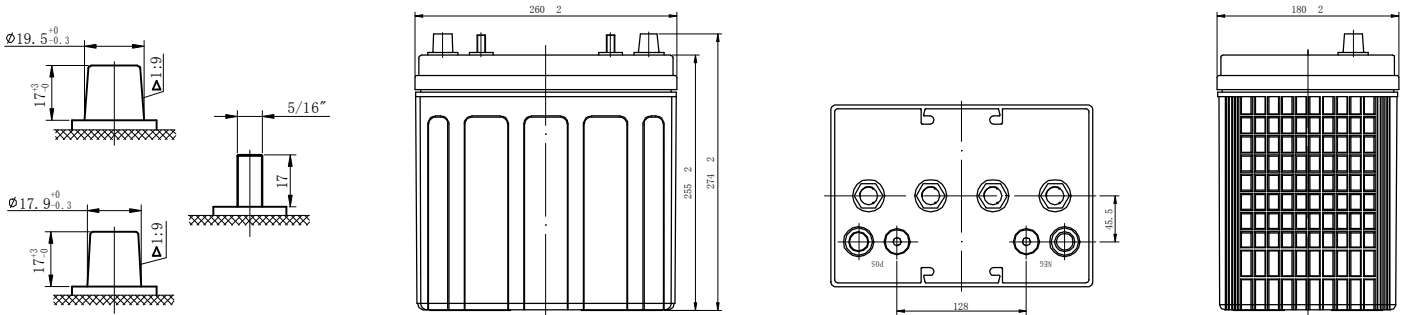
Constant Current Discharge (Amperes) at 20°C

| F.V/Time | 5min | 15min | 30min | 1h | 3h | 5h | 10h | 100h |
|------------|------|-------|-------|-----|------|------|------|------|
| 1.60V/cell | - | - | - | 116 | 47.7 | 31.5 | 17.5 | 1.56 |
| 1.65V/cell | - | - | - | 111 | 45.5 | 30.2 | 16.8 | 1.65 |
| 1.70V/cell | - | - | - | 105 | 43.5 | 29.0 | 16.1 | 1.72 |
| 1.75V/cell | - | - | - | 100 | 41.6 | 27.6 | 15.5 | 1.80 |
| 1.80V/cell | - | - | - | 98 | 40.8 | 27.2 | 15.2 | 1.88 |

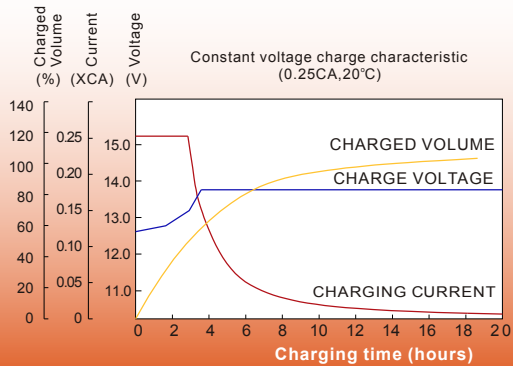
Constant Power Discharge (Watts) at 20°C

| F.V/Time | 5min | 15min | 30min | 45min | 1h | 2h | 3h | 5h |
|------------|------|-------|-------|-------|-----|-----|------|------|
| 1.60V/cell | - | - | - | 279 | 261 | 145 | 103 | 61.6 |
| 1.65V/cell | - | - | - | 272 | 254 | 142 | 100 | 60.2 |
| 1.70V/cell | - | - | - | 262 | 248 | 138 | 97.6 | 58.8 |
| 1.75V/cell | - | - | - | 255 | 241 | 135 | 94.9 | 57.4 |
| 1.80V/cell | - | - | - | 245 | 232 | 131 | 92.1 | 56.0 |

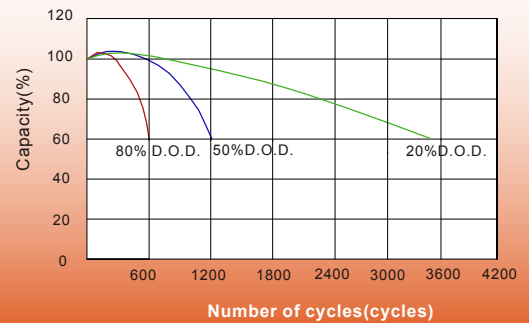
Dimensions



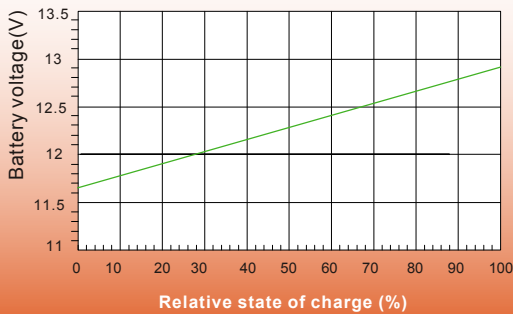
Charge Characteristic Curve



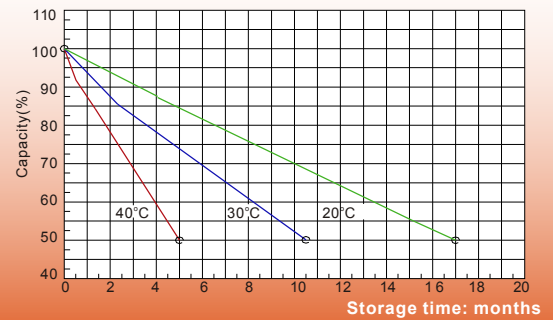
Depth of Discharge



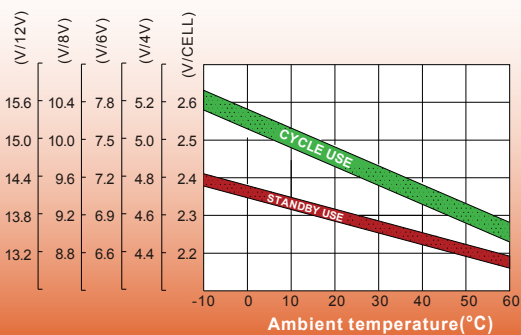
OCV & State of Charge (20°C)



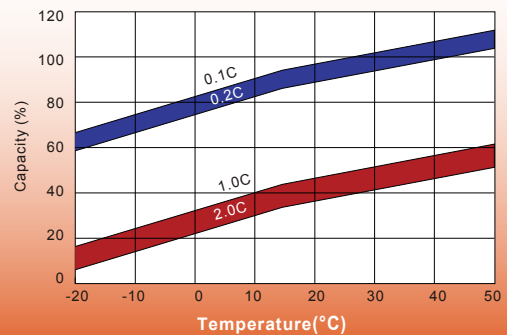
Self-Discharge Characteristics



Charging Voltage & Temperature



Temperature Effects on Capacity



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FUSION
AGM BATTERIES

