

High Discharge Rate AGM Battery

CH12-170W

CH (CSPower High Rate) series Valve Regulated Lead Acid (VRLA) battery is designed for heavy load discharge applications with 10years design life in float service. By using strong grids, thick plate and specially designed active material. It is with lower I.R, lower self discharge rate, high power, and longer service life. The CH series battery offers 30% more power output than the standard series. It is suitable for high power standby used, such as datacenter, UPS, EPS etc.

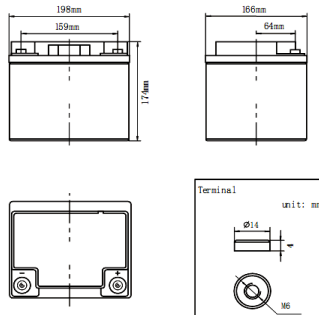
12V
170W

AGM
Technology

High Rate
Discharge



Dimensions & Weight



General Features

- Thicker plate with high Tin low Calcium alloy
- High Reliability and Good Quality
- Deep Discharge Recovery
- High Power Density
- Longer Service Life, in both Float or Cyclic

Technical Specifications



| | | |
|---------------------|--------------|-------|
| Battery Dimensions | Length | 198mm |
| | Width | 166mm |
| | Height | 174mm |
| | Total Height | 174mm |
| Box Dimensions | Length | 212mm |
| | Width | 180mm |
| | Height | 220mm |
| Quantity Per Box | 1 PC per box | |
| Net weight Per Cell | 13.8 kg±3% | |
| Net weight Per Box | 13.8kg | |
| Gross Weight | 14.6kg | |

| | | |
|--|---------------------------|---|
| Nominal Voltage | | 12V |
| Watts/cell@15min | | 170W |
| Capacity 25°C(77°F) | 10 hour rate (4.2A) | 42Ah |
| | 5 hour rate (7.7A) | 38.5Ah |
| | 1 hour rate (28.2A) | 28.2Ah |
| Internal Resistance | Full Charged Battery 25°C | ≤9.5mΩ |
| Capacity affected by Temperature (10 hour) | 40°C (104°F) | 102% |
| | 25°C (77°F) | 100% |
| | 0°C (32°F) | 85% |
| | -15°C (5°F) | 65% |
| Self-Discharge 25°C(77°F) Capacity | after 3 month storage | 90% |
| | after 6 month storage | 80% |
| | after 12 month storage | 62% |
| Charge (Constant Voltage) 25°C (77°F) | Float | Initial Charging Current Less than 8.4A Voltage 13.6-13.8V |
| | Cycle | Initial Charging Current Less than 8.4A Voltage 14.4-14.9V |

Battery Discharge Table

Discharge Constant Power per Cell (Watts at 77° F25° C)

| F.V/Time | 5min | 10min | 15min | 20min | 25min | 30min | 45min | 60min | 90min | 2h | 3h | 10h |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-----|
| 1.60V | 258.5 | 215.4 | 173.2 | 154.2 | 129.3 | 104.3 | 75.8 | 52.6 | 44.0 | 33.3 | 24.1 | 8.6 |
| 1.67V | 253.7 | 211.5 | 170.0 | 152.3 | 126.8 | 102.3 | 74.4 | 51.6 | 43.2 | 32.7 | 23.7 | 8.4 |
| 1.70V | 249.1 | 207.6 | 166.9 | 149.5 | 124.5 | 100.5 | 73.0 | 50.6 | 42.3 | 32.0 | 23.2 | 8.3 |
| 1.75V | 244.3 | 203.6 | 163.8 | 144.8 | 122.2 | 98.6 | 71.7 | 49.7 | 41.5 | 31.4 | 22.8 | 8.1 |
| 1.80V | 235.0 | 195.8 | 157.4 | 138.6 | 117.5 | 94.8 | 68.9 | 47.8 | 39.9 | 30.3 | 21.9 | 7.8 |

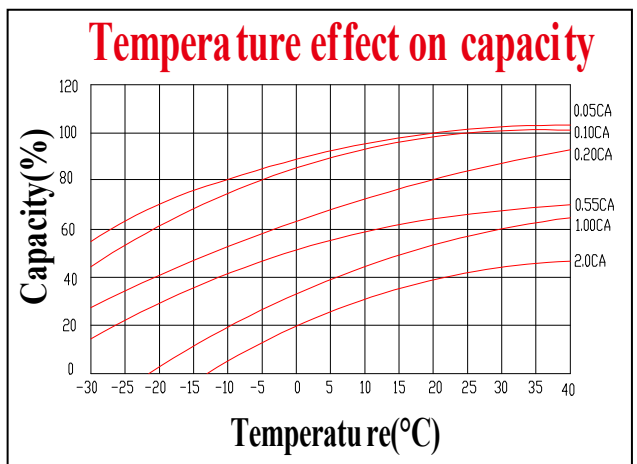
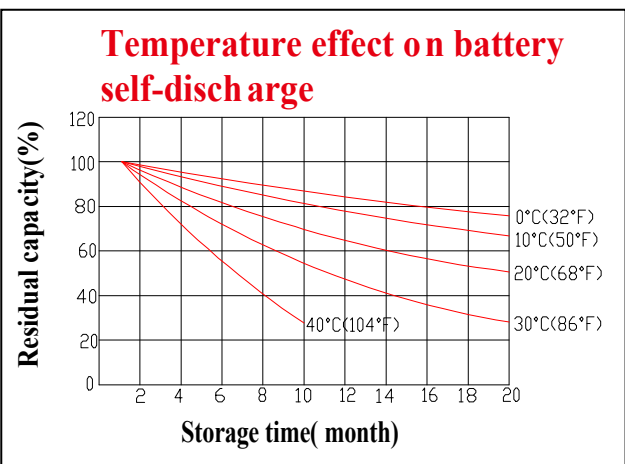
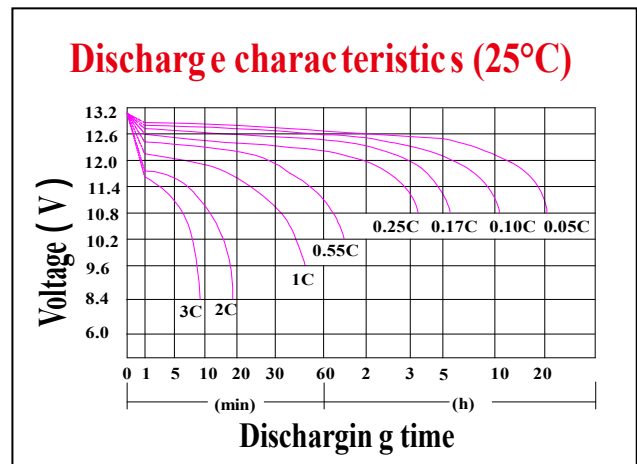
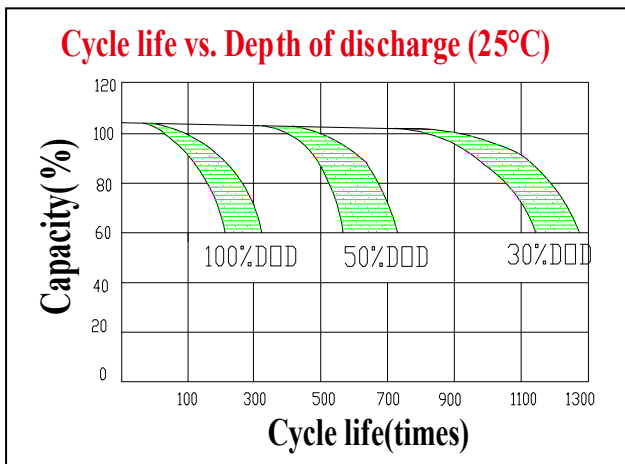
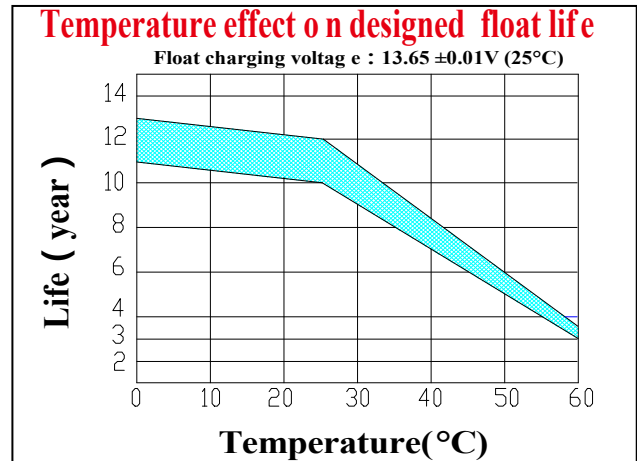
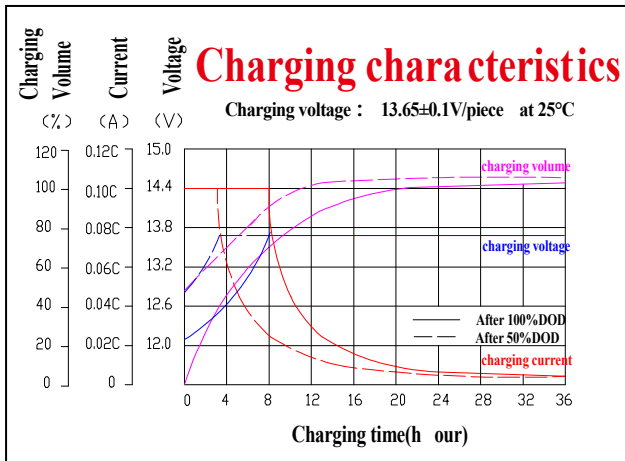
Discharge Constant Current per Cell (Amperes at 77° F 25° C)

| F.V/Time | 5min | 10min | 15min | 20min | 25min | 30min | 45min | 60min | 90min | 2h | 3h | 10h |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| 1.60V | 138.6 | 115.5 | 92.9 | 82.7 | 69.3 | 55.9 | 40.6 | 28.2 | 23.6 | 17.9 | 12.9 | 4.62 |
| 1.67V | 136.0 | 113.4 | 91.2 | 81.7 | 68.0 | 54.9 | 39.9 | 27.7 | 23.2 | 17.5 | 12.7 | 4.52 |
| 1.70V | 133.5 | 111.3 | 89.5 | 80.2 | 66.8 | 53.9 | 39.2 | 27.1 | 22.7 | 17.2 | 12.4 | 4.46 |
| 1.75V | 131.0 | 109.2 | 87.8 | 77.6 | 65.5 | 52.9 | 38.4 | 26.7 | 22.3 | 16.9 | 12.2 | 4.36 |
| 1.80V | 126.0 | 105.0 | 84.4 | 74.3 | 63.0 | 50.8 | 37.0 | 25.6 | 21.4 | 16.2 | 11.8 | 4.20 |

Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Contact **CSPower** for the latest information.

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Performance Characteristics



Battery Construction

| Component | Positive plate | Negative plate | Container | Cover | Safety valve | Terminal | Separator | Electrolyte |
|--------------|----------------|----------------|-----------|-------|--------------|----------|------------|---------------|
| Raw material | Lead dioxide | Lead | ABS | ABS | Si-Rubber | Copper | Fiberglass | Sulfuric acid |

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