

DEEP CYCLE GEL Battery

CG2-1200

CSPower CG series pure GEL battery is with 15-20 years floating design life, it is ideal for standby or frequent cyclic discharge applications under extreme environments. By adopting thicker grids, high purity 99.997% lead and patented Silicon Gel electrolyte, CG series offers excellent recovery performance after deep discharge under frequent cyclic discharge use, and can deliver 1500 cycles at 50% DOD even work in hot or cold area. Suitable for Solar, CATV, marine, RV and deep discharge UPS, communication, and telecommunication, etc.

| | | | |
|----------------------|---------------------------|--------------------------|---------------------------|
| 2V Voltage | 1200Ah Capacity | GEL Technology | Durable Battery |
|----------------------|---------------------------|--------------------------|---------------------------|



COMPLIED STANDARDS



GENERAL FEATURES

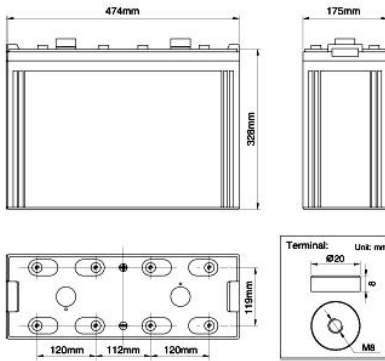
- 30% more cyclic life through innovation at the PAM additives than AGM battery
- Long life expectancy of 15-20 years in floating condition
- Adopts quality silicon nano gel electrolyte
- Excellent deep discharge recovery capability
- Deep cycle performance: up to 2500 cycles @30% DOD

APPLICATIONS

- Telecommunications
- UPS systems, Inverter
- Power Equipments
- Solar & Wind
- Emergency & Security

DIMENSIONS & WEIGHT

| | |
|-----------------------|----------|
| Length(mm/inch) | 475/18.7 |
| Width(mm/inch) | 175/6.89 |
| Height(mm/inch) | 328/13 |
| Total Height(mm/inch) | 365/14.4 |
| Weight(kg/lbs) | 69/152 |



TECHNICAL SPECIFICATIONS

| | | |
|--|---------------------------|---|
| Nominal Voltage | | 2V(Single Cell) |
| Design Floating Life @25°C | | 20 Years |
| Nominal Capacity @25°C(10 hour rate@120.0A,1.8V) | | 1200Ah |
| Capacity @25°C | 20hour rate (63.6A,1.8V) | 1272Ah |
| | 5 hour rate (212A,1.75V) | 1060Ah |
| | 1 hour rate (726A,1.6V) | 726Ah |
| Internal Resistance | Full Charged Battery@25°C | ≤0.19mΩ |
| Ambient Temperature | Discharge | -20°C~60°C |
| | Charge | -10°C~60°C |
| | Storage | -20°C~60°C |
| Max.Discharge Current@25°C | | 2000A(5s) |
| Capacity affected by Temperature (10 hour) | 40°C | 102% |
| | 25°C | 100% |
| | 0°C | 90% |
| | -15°C | 70% |
| Self-Discharge@25°C per Month | | 3% |
| Charge (Constant Voltage) @25°C | Standby Use | Initial Charging Current Less than 180A Voltage 2.23-2.27V |
| | Cycle Use | Initial Charging Current Less than 180A Voltage 2.33-2.37V |

BATTERY DISCHARGE TABEL

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

| F.V/Time | 5min | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|----------|------|-------|-------|-------|-------|-----|-----|-----|-----|-----|-------|------|
| 1.60V | 3353 | 2165 | 1795 | 1188 | 884 | 726 | 462 | 330 | 224 | 148 | 132.0 | 70.0 |
| 1.65V | 3292 | 2125 | 1763 | 1166 | 868 | 713 | 454 | 324 | 220 | 145 | 129.6 | 68.7 |
| 1.70V | 3231 | 2086 | 1730 | 1145 | 852 | 700 | 445 | 318 | 216 | 142 | 127.2 | 67.4 |
| 1.75V | 3170 | 2047 | 1697 | 1123 | 836 | 686 | 437 | 312 | 212 | 140 | 124.8 | 66.1 |
| 1.80V | 3048 | 1968 | 1632 | 1080 | 804 | 660 | 420 | 300 | 204 | 134 | 120.0 | 63.6 |

Discharge Constant Power per Cell (Watts at 25°C)

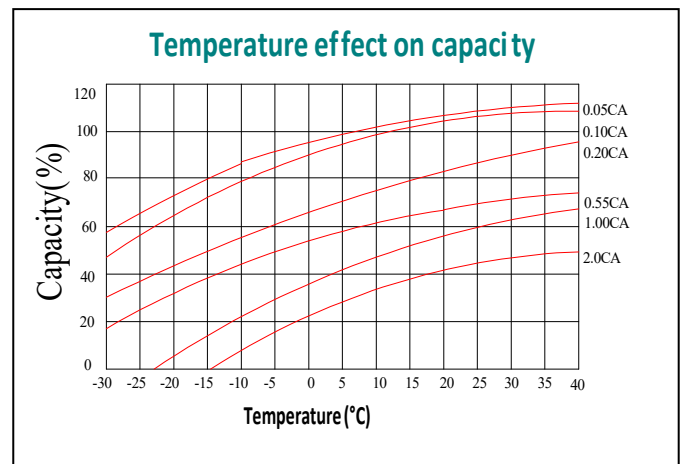
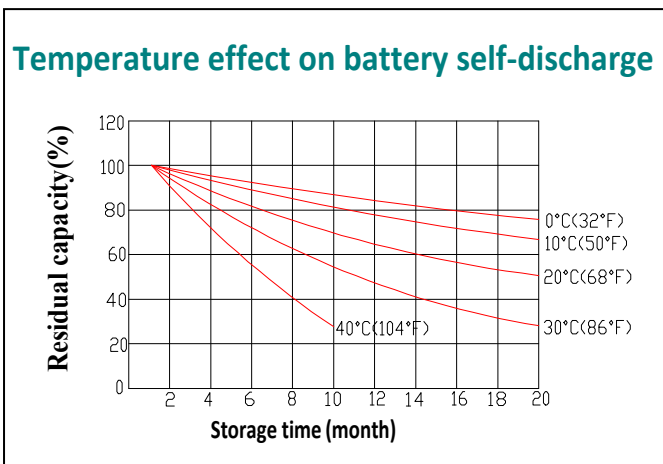
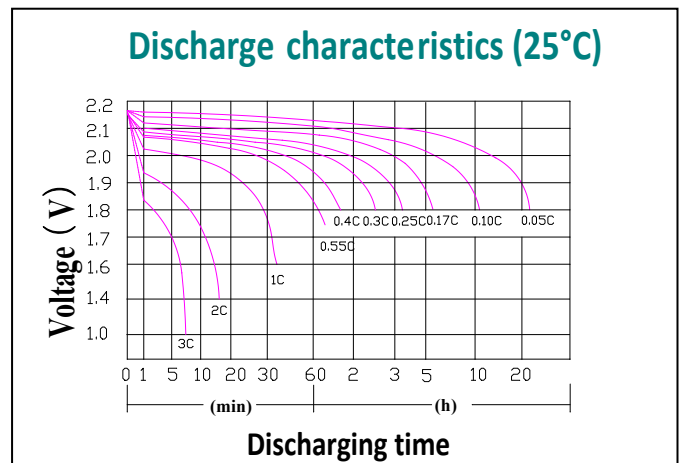
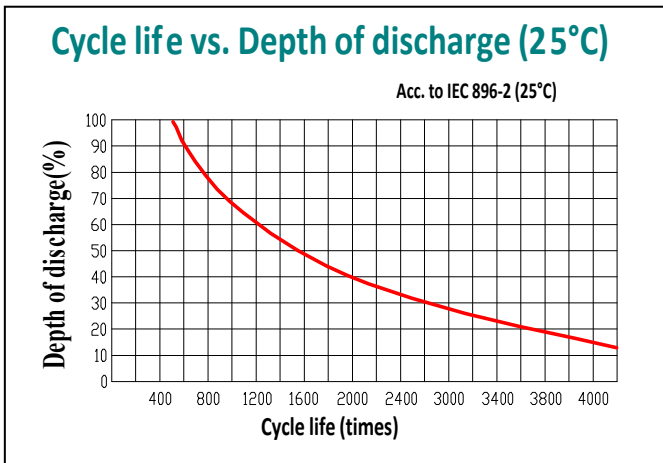
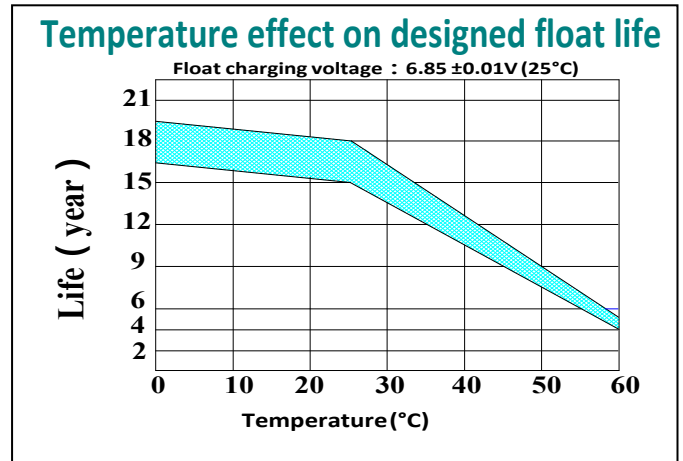
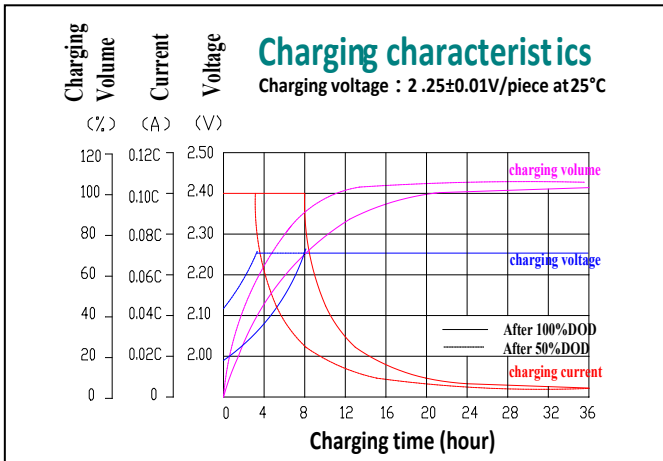
| F.V/Time | 5min | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|----------|------|-------|-------|-------|-------|------|-----|-----|-----|-----|-------|-------|
| 1.60V | 6454 | 4167 | 3456 | 2287 | 1702 | 1398 | 889 | 635 | 432 | 285 | 254.1 | 134.7 |
| 1.65V | 6337 | 4091 | 3393 | 2245 | 1672 | 1372 | 873 | 624 | 424 | 279 | 249.5 | 132.2 |
| 1.70V | 6219 | 4016 | 3330 | 2204 | 1641 | 1347 | 857 | 612 | 416 | 274 | 244.9 | 129.8 |
| 1.75V | 6102 | 3940 | 3267 | 2162 | 1610 | 1321 | 841 | 601 | 408 | 269 | 240.2 | 127.3 |
| 1.80V | 5867 | 3788 | 3142 | 2079 | 1548 | 1271 | 809 | 578 | 393 | 259 | 231.0 | 122.4 |

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 | Pillar seal |
|-----------|--|---|-------------------------------|--------------------------------------|-------------------------|------------|-------------|-----------------------------|
| Features | Thick high Sn low Ca grid with special paste | Balanced Pb-Ca grid for improved recombination efficiency | Fire resistance ABS (UL94-V0) | Flame Si-Rubber and aging resistance | Female Copper Insert M8 | Fiberglass | Silicon Gel | Two layers epoxy resin seal |

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