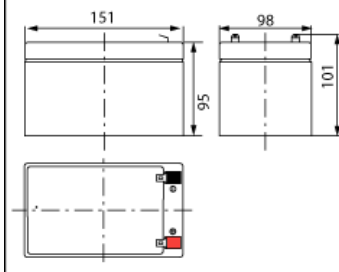


CPL 12 -12

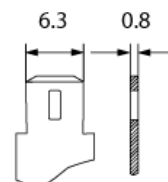


A G M Longlife-series
10 years design life

Dimensions (mm)



Standard terminal (mm)



| | | |
|------------------------------|-----------------------------|----------------|
| Nominal voltage | 12 V | |
| Nominal Capacity 20HR,20°C): | 12 Ah | |
| Internal resistance | Approx. 18.0 m Ω | |
| Maximum charging current | 3.6 A | |
| Maximum discharge current | 180 A (5 sec.) | |
| Operating temperature range | -15°C 50°C | |
| Float use/ cycle use | 13.5 - 13.8V/ 14.4 – 15.0V | |
| Expected life (20°C) | 10 years in float (EUROBAT) | |
| Standard terminal | Faston 6.3 mm | |
| Housing material | ABS | |
| Dimensions | length | 151 mm (±1 mm) |
| | width | 98 mm (±1 mm) |
| | height | 101 mm (±1 mm) |
| Approx. Weight | 3.8 kg | |
| Packing | 4 pcs/box | |

Typical applications:

- UPS and EPS systems
- Computerized data bases
- Life support equipment
- Air traffic power stations
- Security systems
- Military base

- Valve Regulated Maintenance Free
- Absorbent Glassmat Technology
- Built to comply with DIN 43534, IEC896-2, BS6290-pt.4
- Low self discharge
- Classified as non- spillable and Non Dangerous goods by IATA, FAA, ADR, IMDG
- Can be discharged or stored in any position without leakage
- Cannot be charged while the terminal is downward.

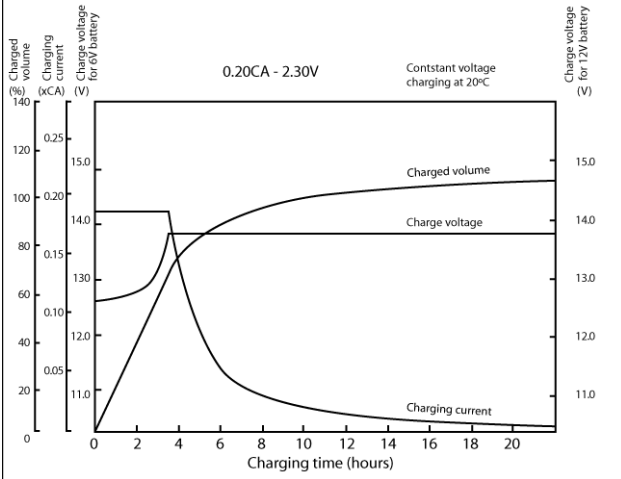
Constant Current Discharge (Amperes) at 25 °C (77°F)

| F.V/TIME | 5min | 10min | 15min | 20min | 25min | 30min | 45min | 50min | 60min | 90min | 2h | 3h | 4h | 5h | 6h | 7h | 8h | 9h | 10h | 12h | 20h |
|------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|
| 1.85V/cell | 20.3 | 15.5 | 12.9 | 11.0 | 9.65 | 8.64 | 6.80 | 6.32 | 5.70 | 4.50 | 3.64 | 2.88 | 2.34 | 1.89 | 1.66 | 1.45 | 1.33 | 1.22 | 1.13 | 0.98 | 0.63 |
| 1.80V/cell | 27.2 | 19.8 | 15.6 | 13.0 | 11.4 | 10.2 | 7.91 | 7.21 | 6.39 | 4.80 | 3.97 | 3.10 | 2.49 | 2.03 | 1.74 | 1.54 | 1.41 | 1.30 | 1.20 | 1.01 | 0.64 |
| 1.75V/cell | 30.7 | 21.7 | 17.0 | 14.0 | 12.0 | 10.6 | 8.21 | 7.51 | 6.68 | 5.09 | 4.12 | 3.16 | 2.56 | 2.08 | 1.79 | 1.58 | 1.43 | 1.32 | 1.21 | 1.02 | 0.64 |
| 1.70V/cell | 33.8 | 23.7 | 18.2 | 14.7 | 12.6 | 11.0 | 8.54 | 7.78 | 6.90 | 5.28 | 4.28 | 3.25 | 2.62 | 2.13 | 1.83 | 1.60 | 1.45 | 1.33 | 1.22 | 1.04 | 0.65 |
| 1.65V/cell | 37.3 | 25.6 | 19.4 | 15.6 | 13.3 | 11.6 | 8.75 | 8.01 | 7.13 | 5.50 | 4.40 | 3.39 | 2.71 | 2.19 | 1.87 | 1.63 | 1.47 | 1.36 | 1.25 | 1.06 | 0.66 |
| 1.60V/cell | 41.1 | 27.8 | 20.7 | 16.7 | 14.1 | 12.3 | 9.12 | 8.32 | 7.38 | 5.68 | 4.55 | 3.49 | 2.79 | 2.27 | 1.91 | 1.66 | 1.49 | 1.37 | 1.26 | 1.06 | 0.67 |

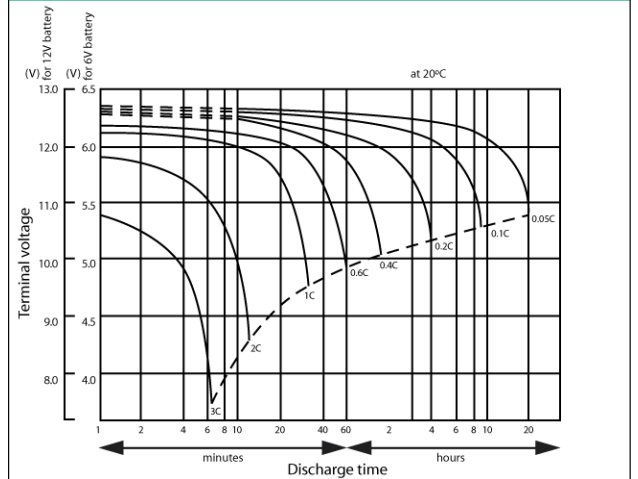
Constant Power Discharge (Watts) at 25 °C (77°F)

| F.V/TIME | 5min | 10min | 15min | 20min | 25min | 30min | 45min | 50min | 60min | 90min | 2h | 3h | 4h | 5h | 6h | 7h | 8h | 9h | 10h | 12h | 20h |
|------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|
| 1.85V/cell | 37.8 | 29.1 | 24.6 | 21.1 | 18.7 | 16.8 | 13.3 | 12.4 | 11.3 | 8.90 | 7.21 | 5.72 | 4.65 | 3.77 | 3.32 | 2.90 | 2.66 | 2.46 | 2.28 | 1.98 | 1.27 |
| 1.80V/cell | 50.2 | 36.8 | 29.3 | 24.6 | 21.7 | 19.6 | 15.3 | 14.0 | 12.5 | 9.41 | 7.80 | 6.12 | 4.94 | 4.03 | 3.47 | 3.08 | 2.82 | 2.60 | 2.41 | 2.04 | 1.28 |
| 1.75V/cell | 55.4 | 39.8 | 31.6 | 26.2 | 22.8 | 20.2 | 15.8 | 14.5 | 13.0 | 9.94 | 8.06 | 6.21 | 5.04 | 4.12 | 3.56 | 3.14 | 2.86 | 2.63 | 2.43 | 2.06 | 1.29 |
| 1.70V/cell | 59.8 | 42.7 | 33.4 | 27.3 | 23.6 | 20.9 | 16.3 | 15.0 | 13.4 | 10.3 | 8.36 | 6.37 | 5.16 | 4.22 | 3.63 | 3.19 | 2.89 | 2.66 | 2.45 | 2.09 | 1.31 |
| 1.65V/cell | 64.6 | 45.4 | 35.0 | 28.7 | 24.7 | 21.9 | 16.6 | 15.3 | 13.7 | 10.6 | 8.55 | 6.62 | 5.31 | 4.32 | 3.69 | 3.24 | 2.93 | 2.70 | 2.50 | 2.12 | 1.33 |
| 1.60V/cell | 69.6 | 48.1 | 36.8 | 30.2 | 26.0 | 22.9 | 17.2 | 15.8 | 14.1 | 10.9 | 8.79 | 6.79 | 5.46 | 4.45 | 3.76 | 3.28 | 2.95 | 2.72 | 2.52 | 2.13 | 1.34 |

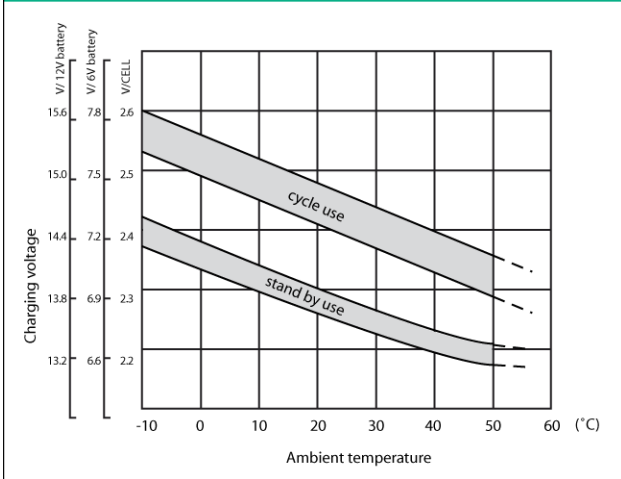
Charging characteristics



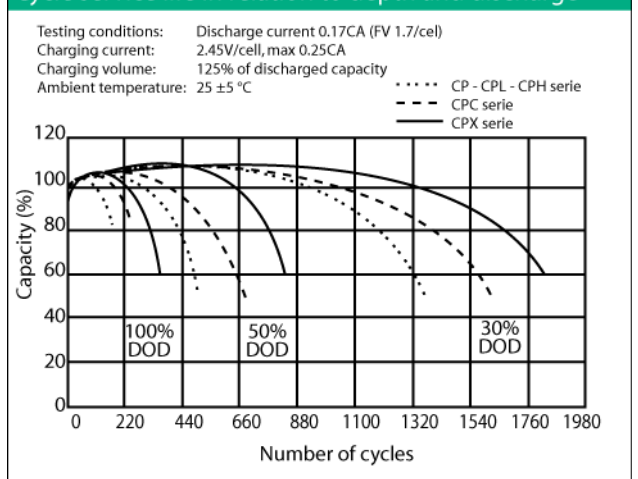
Discharge characteristics curves



Relationship between charging voltage and temperature



Cycle service life in relation to depth and discharge



Models available, Constant Power Discharge (Watts) at 25°C (77°F) 1.65V/c – Time, Weight

| Model | 5min | 10min | 15min | 20min | 25min | 30min | 50min | 1h | 1.5h | 2h | 4h | 6h | 8h | 10h | 20h | Weight |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|------|---------|---------|
| CPL 9 – 12L | 53.4 | 37.8 | 29.1 | 24.2 | 20.9 | 18.0 | 11.9 | 10.6 | 7.63 | 6.19 | 3.73 | 2.69 | 2.11 | 1.76 | 0.93 | 2.75 kg |
| CPL 12 – 12 | 64.6 | 45.4 | 35.0 | 28.7 | 24.7 | 21.9 | 15.3 | 13.7 | 10.6 | 8.55 | 6.62 | 3.69 | 2.93 | 2.50 | 1.33 | 4.05 kg |
| CPL 18 – 12 | 96.9 | 68.0 | 52.6 | 43.1 | 37.1 | 32.8 | 23.0 | 20.6 | 15.9 | 12.8 | 7.97 | 5.54 | 4.40 | 3.75 | 1.99 | 6.0 kg |
| CPL 26 – 12 | 139.9 | 98.3 | 75.9 | 62.3 | 53.6 | 47.4 | 33.2 | 29.7 | 23.0 | 18.5 | 11.5 | 8.00 | 6.35 | 5.42 | 2.88 | 8.4 kg |
| CPL 28 – 12I | 150.7 | 105.8 | 81.8 | 67.1 | 57.7 | 51.0 | 35.8 | 32.0 | 24.8 | 19.9 | 12.4 | 8.62 | 6.84 | 5.83 | 3.10 | 8.8 kg |
| CPL 28 – 12IA | 150.7 | 105.8 | 81.8 | 67.1 | 57.7 | 51.0 | 35.8 | 32.0 | 24.8 | 19.9 | 12.4 | 8.62 | 6.84 | 5.83 | 3.10 | 9.5 kg |
| CPL 33 – 12* | 294.3 | 197.0 | 149.6 | 122.2 | 104.1 | 90.1 | 60.3 | 51.9 | 36.8 | 29.0 | 15.6 | 11.1 | 8.67 | 7.39 | 3.82 | 11.7 kg |
| CPL 45 – 12I | 187.0 | 146.0 | 119.8 | 103.3 | 89.2 | 81.4 | 58.7 | 51.7 | 38.5 | 32.8 | 19.9 | 14.7 | 11.8 | 9.81 | 5.20 | 14.5 kg |
| CPL 55 – 12I* | 380.3 | 262.5 | 205.4 | 170.1 | 147.4 | 127.6 | 85.6 | 74.0 | 54.0 | 43.3 | 24.0 | 17.1 | 13.6 | 11.6 | 6.00 | 17.6 kg |
| CPL 65 – 12ID | 270.1 | 210.9 | 173.0 | 149.2 | 128.8 | 118.8 | 84.8 | 74.7 | 55.6 | 47.3 | 28.8 | 21.2 | 17.0 | 14.2 | 7.51 | 21.0 kg |
| CPL 80 – 12 | 311.6 | 243.3 | 199.6 | 172.1 | 148.7 | 135.7 | 97.9 | 86.2 | 64.1 | 54.6 | 33.2 | 24.5 | 19.6 | 16.4 | 8.67 | 23.0 kg |
| CPL 100 – 12 | 415.5 | 324.5 | 266.2 | 229.5 | 198.2 | 180.9 | 130.5 | 115.0 | 85.5 | 72.8 | 44.3 | 32.7 | 26.1 | 21.8 | 11.6 | 32.0 kg |
| CPL 135 – 12 | 581.6 | 454.3 | 372.6 | 321.3 | 277.5 | 253.2 | 182.7 | 161.0 | 119.7 | 101.9 | 62.1 | 45.8 | 36.6 | 30.5 | 16.2 | 45.5 kg |
| CPL 150 – 12 | 623.2 | 486.7 | 399.2 | 344.2 | 297.3 | 271.3 | 195.8 | 172.5 | 128.3 | 109.2 | 66.5 | 49.0 | 39.2 | 32.7 | 17.3 | 48.2 kg |
| CPL 250 – 12 | 811.2 | 665.4 | 573.7 | 495.5 | 456.8 | 353.1 | 326.3 | 287.5 | 213.8 | 182 | 138 | 110.8 | 92.8 | 81.7 | 72.2 kg | |

* High Rate