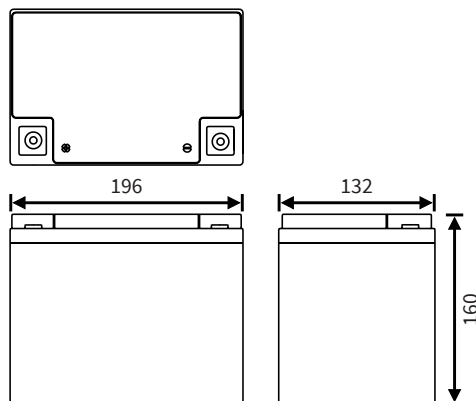


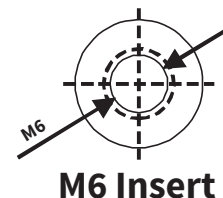
CPL 33-12

Long life AGM battery (10-12 year design life)

Dimensions (mm)



Standard terminal



No image available at this time

Typical applications

- UPS systems
- Data centers
- Telecom systems
- Security systems
- Emergency lighting
- Air traffic power stations
- Medical equipment
- Solar energy

Features

- Valve Regulated Lead Acid (VRLA)
- Maintenance free
- Absorbent Glassmat Technology (AGM)
- Built to comply with DIN 43534, IEC8962, BS6290-pt.4
- Low self discharge
- Classified as non-spillable under IATA, ADR and IMDG regulations
- Can be discharged or stored in any position without leakage
- Battery cannot be charged while upside down
- Produced under ISO 9001 & ISO 14001

| | |
|----------------------------------|--------------------------------|
| Nominal voltage | 12 V |
| Nominal capacity (1.70V/c, 25°C) | 20Hr: 38.8 Ah 10Hr: 35.5 Ah |
| Nominal power (1.65V/c, 25°C) | 10Min: 199.0 W/cell |
| Internal resistance | ≤5.75mΩ (fully charged) |
| Maximum charge current | 8.0 A |
| Maximum discharge current | 320 A (max. 5 sec) |
| Float use / cyclic use | 13.6V - 13.8V / 14.1V - 14.4V |
| Self discharge | Lower than 3% per month |
| Operating temperature range | -20°C ~ 50°C |
| Designlife (20°C) | 10-12 years in float (Eurobat) |
| Standard terminal | Insert M6 (7 Nm Torque) |
| Housing material | ABS (UL94-HB) |
| Dimensions Length | 196 mm |
| Dimensions Width | 132 mm |
| Dimensions Height | 160 mm |
| Approximate Weight | 10.70 kg |
| Packing | 1 pcs / box |

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

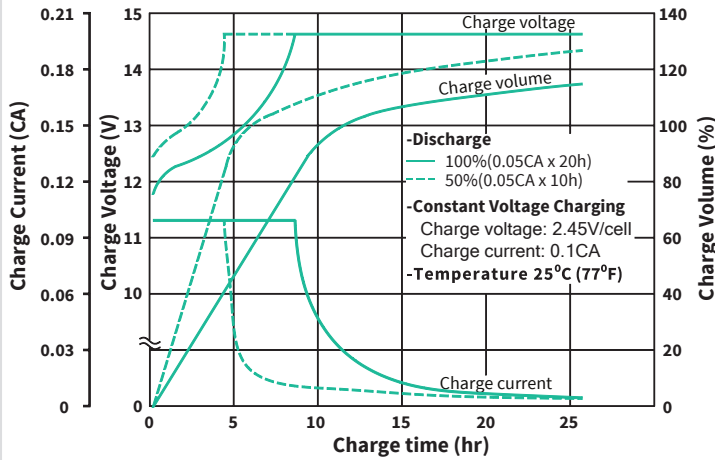
| F.V/TIME | 5 Min | 10 Min | 15 Min | 20 Min | 25 Min | 30 Min | 35 Min | 40 Min | 45 Min | 60 Min | 90 Min | 2 Hr | 3 Hr | 4 Hr | 5 Hr | 6 Hr | 7 Hr | 8 Hr | 10 Hr | 12 Hr | 20 Hr |
|------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|------|------|-------|-------|-------|
| 1.85V/cell | 132 | 81.6 | 61.1 | 49.1 | 42.1 | 36.6 | 32.5 | 29.1 | 26.8 | 21.5 | 15.3 | 12.0 | 8.62 | 6.84 | 5.64 | 4.82 | 4.20 | 3.73 | 3.06 | 2.60 | 1.67 |
| 1.80V/cell | 141 | 87.2 | 65.2 | 52.4 | 44.9 | 39.1 | 34.7 | 31.1 | 28.6 | 23.0 | 16.3 | 12.9 | 9.20 | 7.31 | 6.03 | 5.14 | 4.49 | 3.99 | 3.27 | 2.78 | 1.78 |
| 1.75V/cell | 150 | 92.7 | 69.4 | 55.8 | 47.8 | 41.5 | 36.9 | 33.1 | 30.4 | 24.5 | 17.4 | 13.7 | 9.79 | 7.78 | 6.41 | 5.47 | 4.77 | 4.24 | 3.48 | 2.96 | 1.90 |
| 1.70V/cell | 153 | 94.8 | 70.9 | 57.0 | 48.9 | 42.5 | 37.7 | 33.8 | 31.1 | 25.0 | 17.7 | 14.0 | 10.0 | 7.95 | 6.55 | 5.59 | 4.88 | 4.33 | 3.55 | 3.03 | 1.94 |
| 1.67V/cell | 154 | 95.6 | 71.5 | 57.5 | 49.3 | 42.8 | 38.0 | 34.1 | 31.3 | 25.2 | 17.9 | 14.1 | 10.1 | 8.02 | • | • | • | • | • | • | • |
| 1.65V/cell | 155 | 96.0 | 71.8 | 57.7 | 49.5 | 43.0 | 38.2 | 34.3 | 31.5 | 25.3 | 18.0 | 14.2 | 10.1 | 8.05 | • | • | • | • | • | • | • |
| 1.60V/cell | 156 | 96.9 | 72.5 | 58.3 | 50.0 | 43.4 | 38.6 | 34.6 | 31.8 | 25.6 | 18.1 | 14.3 | 10.2 | 8.13 | • | • | • | • | • | • | • |

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

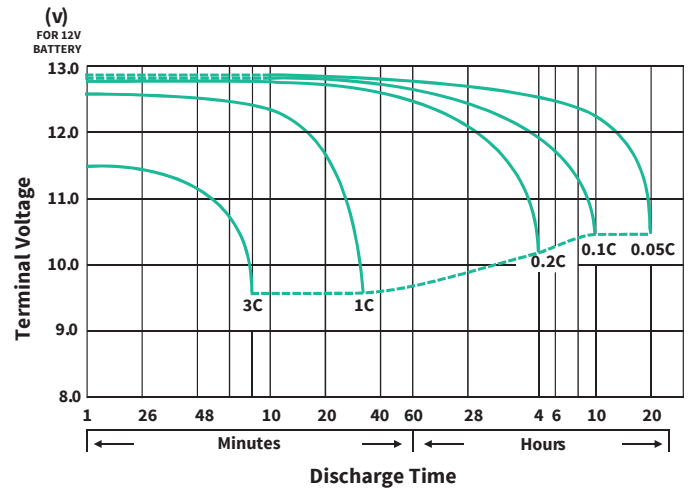
| F.V/TIME | 5 Min | 10 Min | 15 Min | 20 Min | 25 Min | 30 Min | 35 Min | 40 Min | 45 Min | 60 Min | 90 Min | 2 Hr | 3 Hr | 4 Hr | 5 Hr | 6 Hr | 7 Hr | 8 Hr | 10 Hr | 12 Hr | 20 Hr |
|------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|------|------|-------|-------|-------|
| 1.85V/cell | 233 | 153 | 117 | 97,1 | 82,3 | 71,2 | 63,2 | 56,5 | 51,6 | 41,4 | 29,7 | 23,2 | 16,7 | 13,3 | 11 | 9,46 | 8,23 | 7,27 | 5,86 | 4,91 | 3,05 |
| 1.80V/cell | 249 | 164 | 125 | 104 | 87,9 | 76,1 | 67,5 | 60,3 | 55,1 | 44,2 | 31,7 | 24,8 | 17,8 | 14,2 | 11,8 | 10,1 | 8,79 | 7,77 | 6,26 | 5,24 | 3,25 |
| 1.75V/cell | 265 | 174 | 133 | 110 | 93,5 | 81 | 71,8 | 64,2 | 58,7 | 47 | 33,7 | 26,4 | 18,9 | 15,1 | 12,5 | 10,7 | 9,35 | 8,26 | 6,66 | 5,57 | 3,46 |
| 1.70V/cell | 271 | 178 | 136 | 113 | 95,6 | 82,7 | 73,4 | 65,6 | 60 | 48 | 34,4 | 27 | 19,3 | 15,4 | 12,8 | 11 | 9,56 | 8,45 | 6,81 | 5,7 | 3,54 |
| 1.67V/cell | 273 | 179 | 137 | 114 | 96,4 | 83,5 | 74,1 | 66,2 | 60,5 | 48,5 | 34,8 | 27,2 | 19,5 | 15,5 | • | • | • | • | • | • | • |
| 1.65V/cell | 274 | 180 | 138 | 114 | 96,8 | 83,8 | 74,3 | 66,4 | 60,7 | 48,6 | 34,9 | 27,3 | 19,6 | 15,6 | • | • | • | • | • | • | • |
| 1.60V/cell | 277 | 182 | 139 | 115 | 97,8 | 84,6 | 75,1 | 67,1 | 61,3 | 49,1 | 35,2 | 27,6 | 19,8 | 15,8 | • | • | • | • | • | • | • |

*: Battery consists of 6 cells

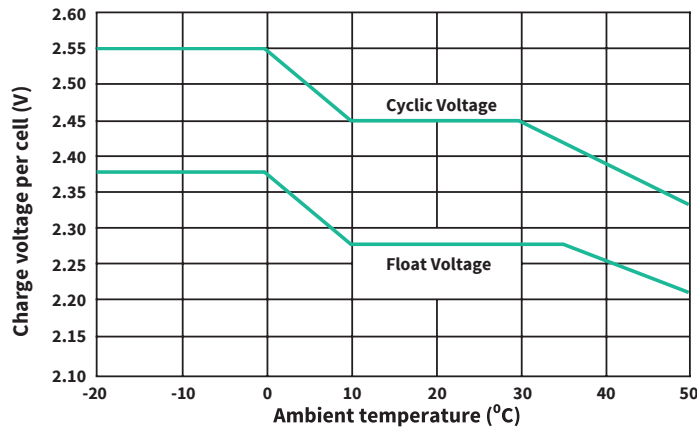
Charge characteristics



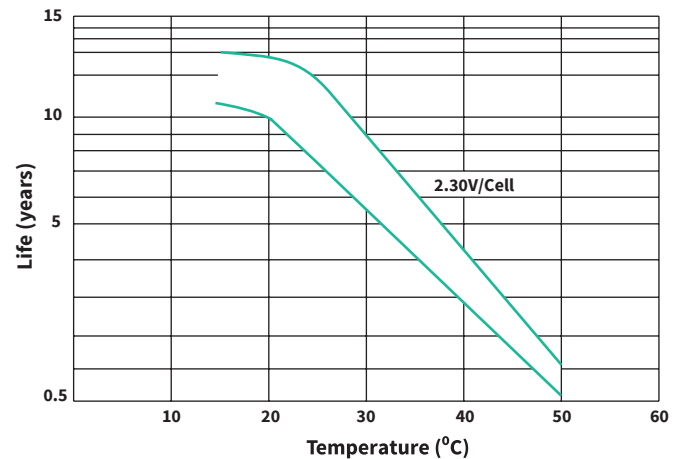
Discharge characteristics



Charge voltage in relation to temperature



Service life in relation to temperature



Models available

| Model | Voltage | Capacity (Ah) | Dimensions (mm) | Weight (kg) |
|-------------|---------|---------------|-----------------|-------------|
| CPL 9-12L | 12 | 9 | 151x65x102 | 2.70 |
| CPL 12-12 | 12 | 12 | 151x98x101 | 3.70 |
| CPL 18-12 | 12 | 18 | 181x76x167 | 5.45 |
| CPL 28-12I | 12 | 28 | 168x178x124 | 8.40 |
| CPL 28-12IA | 12 | 28 | 164x124x175 | 9.00 |
| CPL 33-12 | 12 | 33 | 195x130x160 | 10.70 |
| CPL 45-12I | 12 | 45 | 198x167x160 | 13.80 |
| CPL 55-12I | 12 | 55 | 229x138x213 | 17.30 |
| CPL 65-12IJ | 12 | 65 | 350x167x179 | 23.40 |
| CPL 80-12 | 12 | 80 | 260x170x207 | 24.20 |
| CPL 100-12 | 12 | 100 | 307x168x214 | 29.50 |
| CPL 135-12 | 12 | 135 | 342x172x285 | 41.40 |
| CPL 150-12 | 12 | 150 | 485x172x240 | 47.00 |
| CPL 250-12 | 12 | 250 | 521x269x220 | 78.00 |

Cellpower family

Cellpower supplies a broad range of reliable AGM, GEL and Lithium batteries. Each product series has its own unique characteristics, so that there is a suitable battery for every application with its associated specific usage profile. Combined with the right Cellpower battery accessories, you are able to assemble a high-quality and reliable battery system.

The sealed, maintenance-free AGM lead battery type has a long operational lifetime. When used correctly, the Absorbed Glass Mat (AGM) technology offers dependable, lasting service. Additionally, AGM batteries exhibit very little self-discharge when compared with other lead-acid batteries. Sealed lead-acid batteries require low maintenance and do not need to be refilled with water or other liquids.

