

CPH 110-12



Typical applications

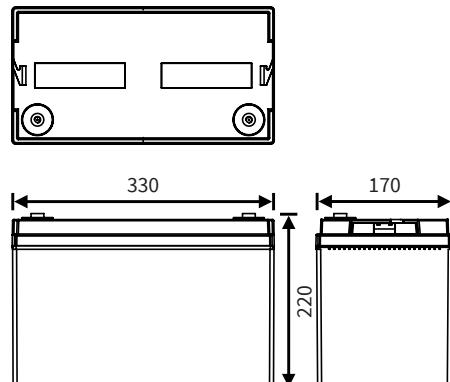
- UPS systems
- Data centers
- Telecom systems
- Security systems
- Emergency lighting
- Air traffic power stations
- Medical equipment
- Solar energy

Features

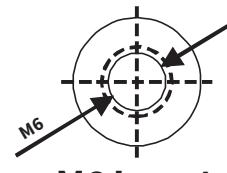
- Valve Regulated Lead Acid (VRLA)
- Maintenance free
- Absorbent Glassmat Technology (AGM)
- Built to comply with DIN 43534, IEC8962, BS6290-pt.4
- Low self discharge
- Classified as non-spillable under IATA, ADR and IMDG regulations
- Can be discharged or stored in any position without leakage
- Battery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

High Rate AGM battery

Dimensions (mm)



Standard terminal



M6 Insert

| | |
|----------------------------------|--------------------------------|
| Nominal voltage | 12 V |
| Nominal capacity (1.80V/c, 25°C) | 20Hr: 110.0 Ah |
| | 1Hr: 67.2 Ah |
| Nominal power (1.60V/c, 25°C) | 10Min: 572.0 W/cell |
| Internal resistance | ≤4.2mΩ (fully charged) |
| Maximum charge current | 33.0 A |
| Maximum discharge current | 820 A (max. 5 sec) |
| Float use / cyclic use | 13.4V - 13.8V / 14.4V - 14.7V |
| Self discharge | <3% per month |
| Operating temperature range | -20°C ~ 60°C |
| Designlife (20°C) | 10-12 years in float (Eurobat) |
| Standard terminal | Insert M6 (8.5 Nm Torque) |
| Housing material | ABS (UL 94-HB) |
| Dimensions Length | 330 mm |
| Dimensions Width | 170 mm |
| Dimensions Height | 220 mm |
| Approximate Weight | 32.3 kg |
| Packing | 1 pcs / box |

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

| F.V/TIME | 3 Min | 5 Min | 10 Min | 15 Min | 20 Min | 25 Min | 30 Min | 45 Min | 60 Min |
|------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 1.80V/cell | 405,0 | 328,0 | 263,0 | 191,0 | 164,0 | 141,0 | 121,0 | 86,1 | 67,2 |
| 1.75V/cell | 419,0 | 342,0 | 284,0 | 200,0 | 170,0 | 145,0 | 126,0 | 88,2 | 69,3 |
| 1.70V/cell | 434,0 | 358,0 | 294,0 | 210,0 | 175,0 | 151,0 | 132,0 | 93,5 | 71,4 |
| 1.67V/cell | 448,0 | 372,0 | 306,0 | 225,0 | 187,0 | 160,0 | 141,0 | 100,0 | 73,5 |
| 1.65V/cell | 453,0 | 376,0 | 314,0 | 229,0 | 193,0 | 164,0 | 144,0 | 101,0 | 74,4 |
| 1.60V/cell | 467,0 | 388,0 | 322,0 | 240,0 | 208,0 | 176,0 | 153,0 | 103,0 | 76,7 |

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

| F.V/TIME | 3 Min | 5 Min | 10 Min | 15 Min | 20 Min | 25 Min | 30 Min | 45 Min | 60 Min |
|------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 1.80V/cell | 818,0 | 645,0 | 465,0 | 349,0 | 305,0 | 261,0 | 228,0 | 162,0 | 125,0 |
| 1.75V/cell | 832,0 | 664,0 | 482,0 | 372,0 | 323,0 | 273,0 | 238,0 | 172,0 | 132,0 |
| 1.70V/cell | 849,0 | 697,0 | 512,0 | 395,0 | 339,0 | 289,0 | 251,0 | 182,0 | 137,0 |
| 1.67V/cell | 864,0 | 723,0 | 553,0 | 420,0 | 360,0 | 302,0 | 252,0 | 187,0 | 141,0 |
| 1.65V/cell | 870,0 | 729,0 | 558,0 | 425,0 | 364,0 | 306,0 | 256,0 | 188,0 | 142,0 |
| 1.60V/cell | 886,0 | 746,0 | 572,0 | 437,0 | 365,0 | 315,0 | 267,0 | 191,0 | 144,0 |

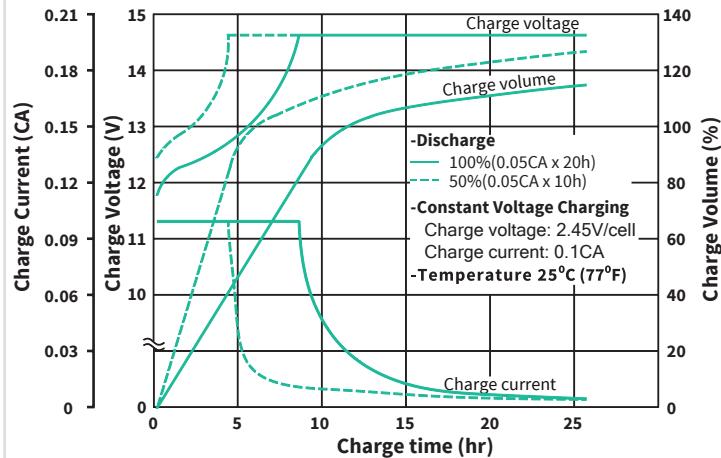
*: Battery consists of 6 cells

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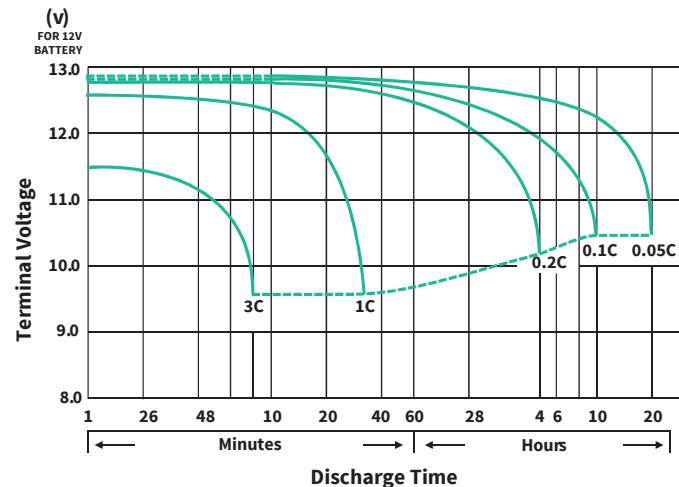
CPH 110-12 Datasheet V2.1

PAGE 1 OF 2

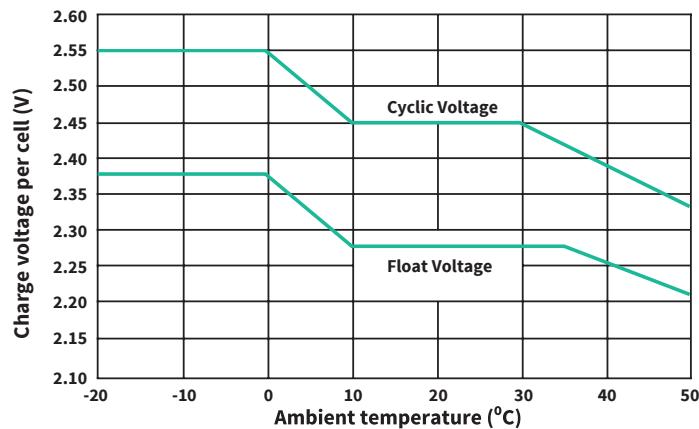
Charge characteristics



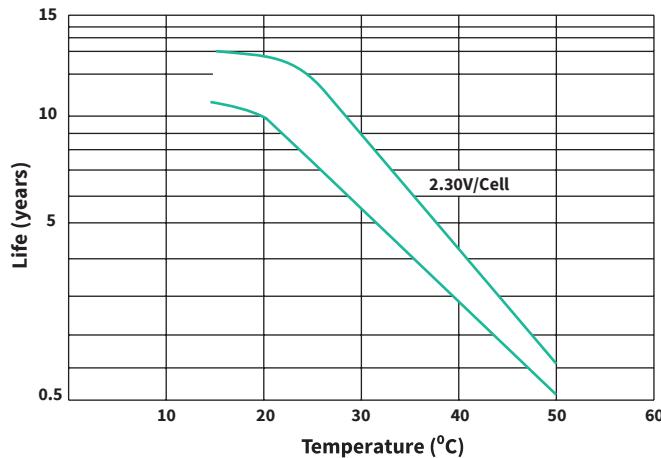
Discharge characteristics



Charge voltage in relation to temperature



Service life in relation to temperature



Models available

| Model | Voltage | Capacity (Ah) | Dimensions (mm) | Weight (kg) |
|------------|---------|---------------|-----------------|-------------|
| CPH 5-12 | 12 | 5 | 90x70x107 | 1.90 |
| CPH 6-12 | 12 | 6 | 151x51x101 | 2.00 |
| CPH 80-12 | 12 | 80 | 258x166x215 | 24.50 |
| CPH 95-12 | 12 | 95 | 306x170x225 | 29.20 |
| CPH 110-12 | 12 | 110 | 330x170x220 | 32.30 |
| CPH 140-12 | 12 | 140 | 341x173x283 | 39.50 |
| CPH 150-12 | 12 | 150 | 341x173x283 | 41.00 |

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.

