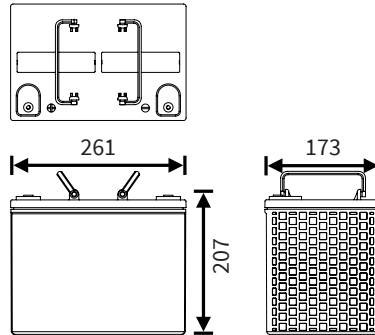


## CPW 390-12

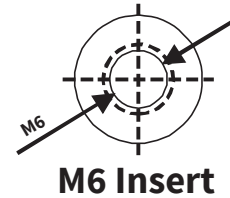
Long life High Rate AGM battery (10-12 years)



### Dimensions (mm)



### Standard terminal (mm)



## Typical applications

- UPS systems
- Data centers
- Telecom systems
- Security systems
- Emergency lighting
- Air traffic power stations
- Start boosters
- Medical equipment

## Features

- Valve Regulated Maintenance Free (VRLA)
- Absorbent Glass Mat Technology (AGM)
- 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
- Battery cannot be charged while upside down
- Produced under ISO 9001 & ISO 14001

Nominal voltage	12 V
Nominal capacity (1.75V/c, 25°C)	20Hr: 80.5 Ah 10Hr: 78.0 Ah
Nominal power (1.75V/c, 25°C)	10Min: 364.00 W/cell
Internal resistance	≤4mΩ (fully charged)
Maximum charge current	23.4 A
Maximum discharge current	2300 A (max. 5 sec)
Float use / Cycle use	13.5 - 13.8V / 14.4 - 15.0V
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 (5.5 Nm torque)
Housing material	ABS (UL94-HB)
Dimensions Length	261 mm
Dimensions Width	173 mm
Dimensions Height	207 mm
Approximate Weight	26.00 kg
Packing	1 pcs / box

\*: 5 years warranty optional. Warranty valid for stand-by use only. Additional terms and conditions may apply. Ask your Cellpower representative.

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

F.V/TIME	5 Min	10 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
1.80V/cell	284.0	179.0	147.0	90.00	52.90	20.46	13.320	7.600	3.952
1.75V/cell	312.0	193.0	155.0	93.00	53.80	20.78	13.600	7.800	4.026
1.70V/cell	332.0	201.0	160.0	95.00	54.40	20.93	13.690	7.805	4.056
1.67V/cell	345.6	205.4	162.8	95.43	54.82	20.99	13.696	7.811	4.058
1.65V/cell	348.0	207.0	164.0	96.00	54.90	21.03	13.700	7.813	4.059

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

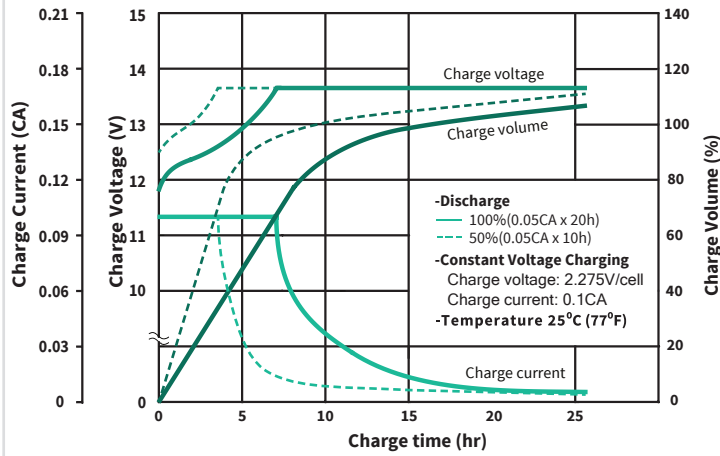
F.V/TIME	5 Min	10 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
1.80V/cell	489,50	339,33	282,00	179,17	104,83	40,92	26,64	15,20	7,903
1.75V/cell	548,50	364,00	298,33	184,00	106,67	41,77	27,20	15,60	8,112
1.70V/cell	585,17	379,50	307,83	186,83	108,00	41,77	27,38	15,60	8,112
1.67V/cell	604,66	388,17	312,83	187,87	108,83	41,98	27,39	15,60	8,112
1.65V/cell	609,50	391,33	315,17	189,00	109,00	42,06	27,40	15,60	8,112

### Constant Current / Power Discharge (Amps / Watts) per Cell\* at 25 °C (77°F)

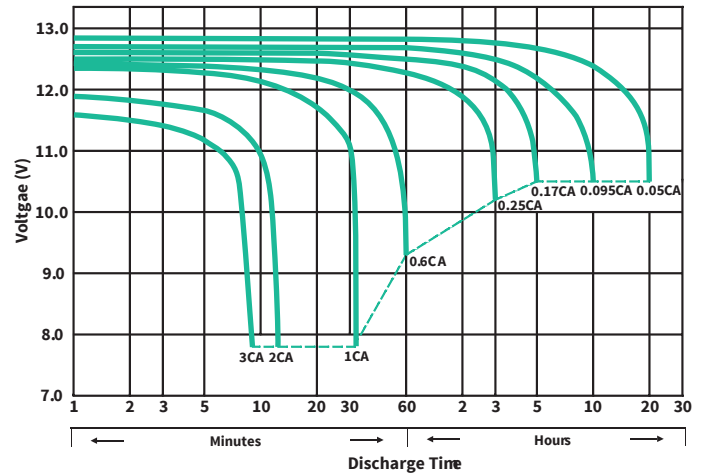
F.V/TIME	5 Min	10 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
1.75V/cell	312.0 A	193.0 A	155.0 A	93.00 A	53.80 A	20.78 A	13.600 A	7.800 A	4.026 A
1.75V/cell	548.50 W	364.00 W	298.33 W	184.00 W	106.67 W	41.77 W	27.20 W	15.60 W	8.112 W

\*: Battery consists of 6 Cells

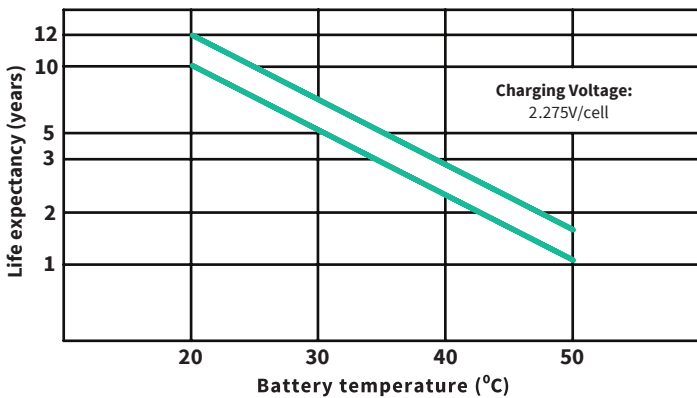
## Charge characteristics



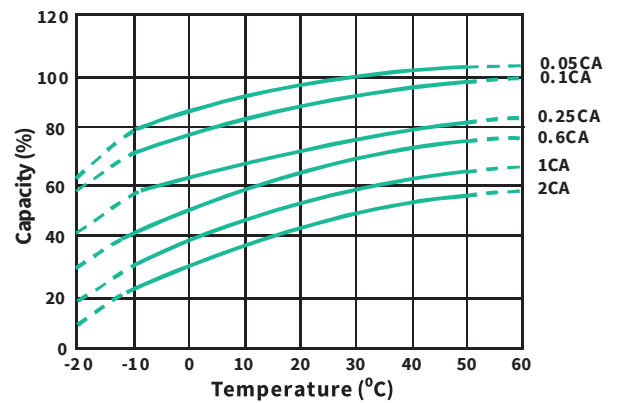
## Discharge characteristics



## Life expectancy in relation to temperature



## Capacity in relation to temperature



## Models available

Model	Voltage	Capacity (Ah)	Dimensions (mm)	Weight (kg)
CPW 30-12	12	5.0	90x70x106	1.80
CPW 35-12	12	7.0	151x65x98	2.20
CPW 35-12L	12	7.0	151x65x98	2.20
CPW 50-12	12	8.5	151x65x100	2.75
CPW 80-12	12	13	151x98x98	4.20
CPW 110-12	12	21	181x76x166	6.50
CPW 140-12	12	28	165x125x175	9.60
CPW 160-12	12	33	195x129x168	11.25
CPW 200-12	12	40	197x165x171	14.30
CPW 270-12	12	55	228x139x207	17.80
CPW 390-12	12	80	261x173x207	26.00
CPW 440-12	12	88	261x173x207	26.40
CPW 530-12	12	110	330x173x218	34.30
CPW 650-12	12	135	344x173x277	41.10
CPW 750-12	12	155	344x173x277	45.50

## 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 GEL battery type has a long operational lifetime. When used correctly, the technology offers dependable, lasting service. Additionally, GEL 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.

