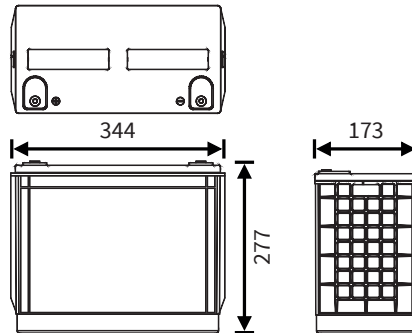


CPW 650-12

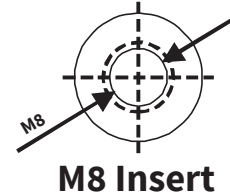
Long life High Rate AGM battery (10-12 years)



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: 133.8 Ah 10Hr: 130.5 Ah
Nominal power (1.75V/c, 25°C)	10Min: 613.00 W/cell
Internal resistance	≤2.9mΩ (fully charged)
Maximum charge current	39.0 A
Maximum discharge current	3500 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 M8 (10 Nm torque)
Housing material	ABS (UL94-HB)
Dimensions Length	344 mm
Dimensions Width	173 mm
Dimensions Height	277 mm
Approximate Weight	41.10 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	374,00	304,72	247,50	151,50	89,40	34,73	22,25	12,81	6,56
1.75V/cell	412,00	326,93	261,00	157,50	90,75	35,42	22,61	13,05	6,69
1.70V/cell	449,00	349,08	270,00	160,50	91,80	35,74	22,79	13,25	6,79
1.65V/cell	492,00	369,36	277,50	163,50	92,70	35,99	23,01	13,32	6,83
1.60V/cell	521,00	388,14	282,00	165,00	93,30	36,21	23,19	13,34	6,84

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

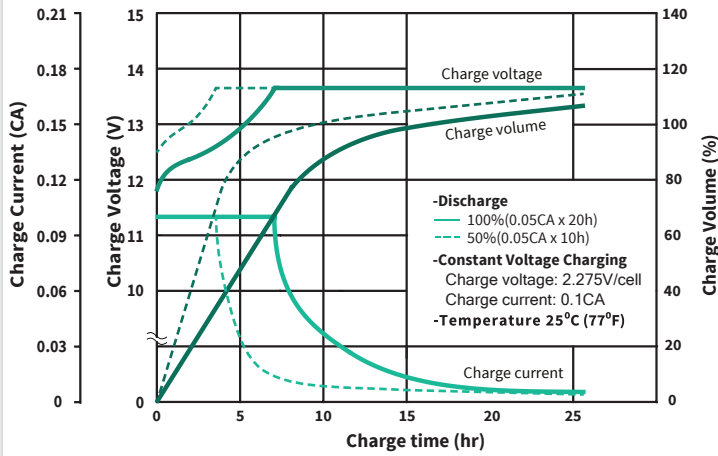
F.V/TIME	5 Min	10 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
1.80V/cell	689,00	577,82	475,75	302,75	177,25	69,45	44,51	25,61	13,13
1.75V/cell	754,00	613,49	503,25	310,50	180,00	70,84	45,14	26,11	13,38
1.70V/cell	815,00	638,69	520,50	315,50	182,00	71,48	45,57	26,50	13,58
1.65V/cell	870,00	658,40	532,25	319,00	183,75	71,98	46,02	26,64	13,65
1.60V/cell	893,00	671,12	540,00	322,00	185,25	72,41	46,37	26,69	13,68

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

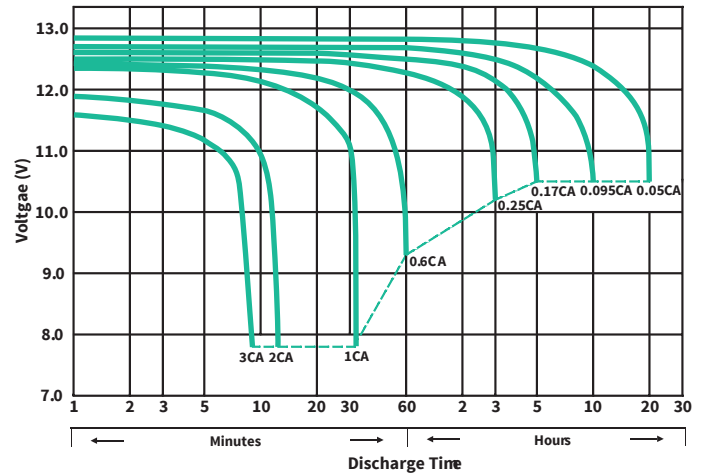
F.V/TIME	5 Min	10 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
1.75V/cell	412.00 A	326.93 A	261.00 A	157.50 A	90.75 A	35.42 A	22.61 A	13.05 A	6.69 A
1.75V/cell	754.00 W	613.49 W	503.25 W	310.50 W	180.00 W	70.84 W	45.14 W	26.11 W	13.38 W

*: Battery consists of 6 Cells

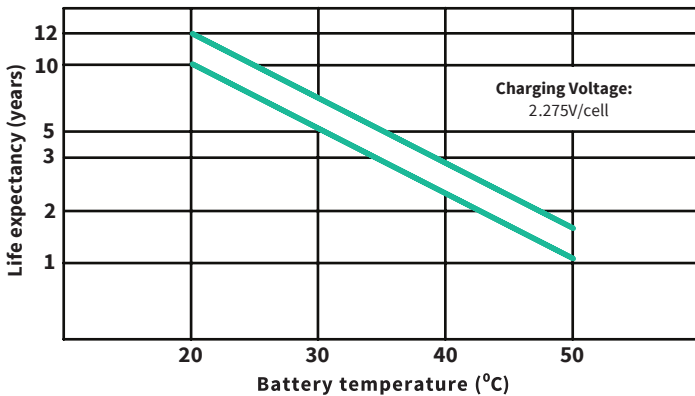
Charge characteristics



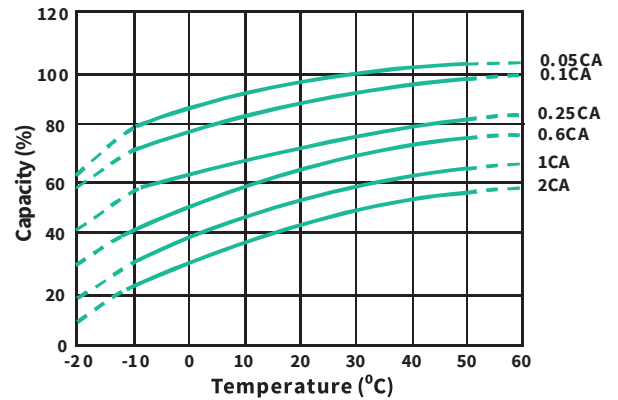
Discharge characteristics



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.

