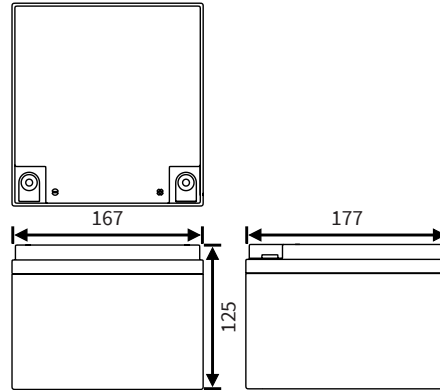


CPL 28-12I

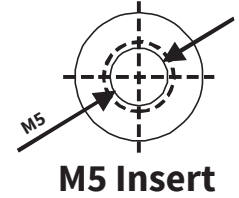
Long life AGM battery (10-12 year design life)



Dimensions (mm)



Standard terminal



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: 29.4 Ah
	10Hr: 28.4 Ah
Nominal power (1.65V/c, 25°C)	10Min: 151.0 W/cell
Internal resistance	≤8mΩ (fully charged)
Maximum charge current	6.5 A
Maximum discharge current	300 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 M5 (6 Nm Torque)
Housing material	ABS (UL94-HB)
Dimensions Length	167 mm
Dimensions Width	177 mm
Dimensions Height	125 mm
Approximate Weight	8.40 kg
Packing	1 pcs / box

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

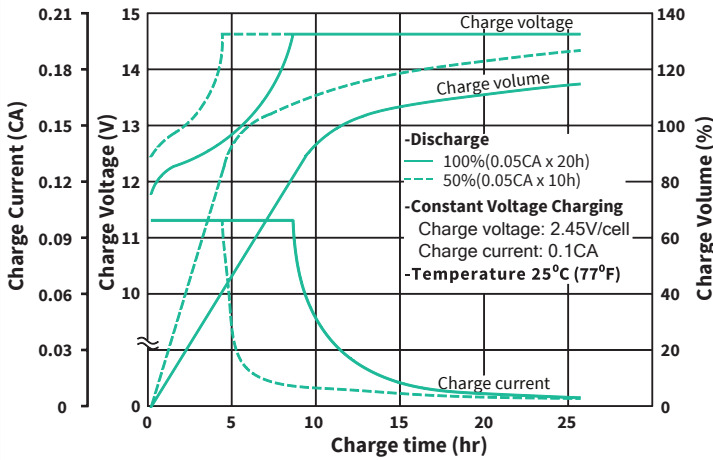
F.V/TIME	5 Min	10 Min	15 Min	20 Min	25 Min	30 Min	35 Min	40 Min	45 Min	60 Min	90 Min	2 Hr	3 Hr	4 Hr	5 Hr	6 Hr	7 Hr	8 Hr	10 Hr	12 Hr	20 Hr
1.85V/cell	95.4	59.2	44.1	35.7	30.3	26.6	23.9	21.6	19.8	15.9	11.6	9.20	6.67	5.30	4.48	3.88	3.42	3.02	2.44	2.05	1.27
1.80V/cell	102	63.3	47.1	38.2	32.4	28.4	25.5	23.1	21.2	17.0	12.4	9.80	7.12	5.66	4.79	4.14	3.66	3.23	2.61	2.19	1.36
1.75V/cell	108	67.3	50.1	40.6	34.4	30.2	27.1	24.6	22.5	18.0	13.2	10.5	7.57	6.02	5.10	4.41	3.89	3.43	2.78	2.33	1.44
1.70V/cell	111	68.8	51.2	41.5	35.2	30.9	27.7	25.1	23.0	18.4	13.5	10.7	7.74	6.15	5.21	4.51	3.98	3.51	2.84	2.38	1.47
1.67V/cell	112	69.4	51.6	41.8	35.5	31.1	28.0	25.3	23.2	18.6	13.6	10.8	7.81	6.21	•	•	•	•	•	•	•
1.65V/cell	112	69.7	51.8	42.0	35.6	31.3	28.1	25.4	23.3	18.7	13.6	10.8	7.84	6.23	•	•	•	•	•	•	•
1.60V/cell	113	70.3	52.3	42.4	36.0	31.6	28.3	25.7	23.6	18.9	13.8	10.9	7.92	6.29	•	•	•	•	•	•	•

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

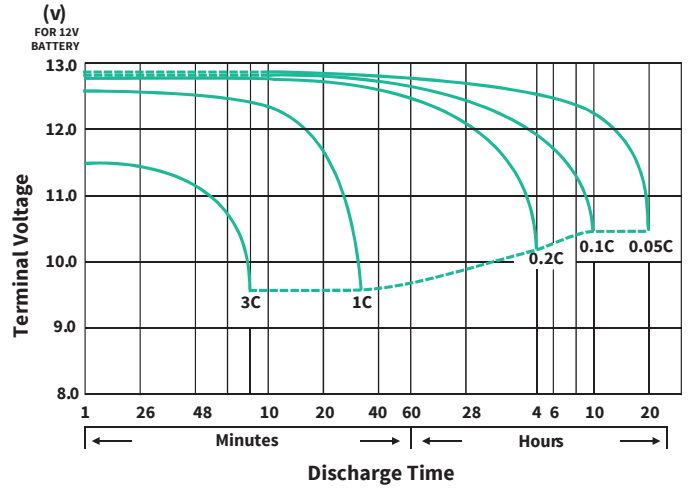
F.V/TIME	5 Min	10 Min	15 Min	20 Min	25 Min	30 Min	35 Min	40 Min	45 Min	60 Min	90 Min	2 Hr	3 Hr	4 Hr	5 Hr	6 Hr	7 Hr	8 Hr	10 Hr	12 Hr	20 Hr
1.85V/cell	232	128	91,9	73,3	61,6	54,1	48,7	44,4	40,8	32,6	23,2	18,2	13,2	10,7	9,03	7,8	6,86	6,12	4,96	4,18	2,54
1.80V/cell	248	137	98,1	78,3	65,8	57,8	52,1	47,4	43,6	34,8	24,8	19,4	14,1	11,4	9,64	8,33	7,33	6,53	5,29	4,46	2,71
1.75V/cell	263	146	104	83,3	70	61,5	55,4	50,5	46,4	37	26,3	20,7	15,1	12,2	10,3	8,86	7,8	6,95	5,63	4,75	2,88
1.70V/cell	269	149	107	85,1	71,5	62,8	56,6	51,6	47,4	37,8	26,9	21,1	15,4	12,4	10,5	9,06	7,97	7,1	5,75	4,85	2,95
1.67V/cell	272	150	108	85,8	72,2	63,4	57,1	52	47,9	38,2	27,2	21,3	15,5	12,5	•	•	•	•	•	•	•
1.65V/cell	273	151	108	86,2	72,4	63,6	57,3	52,2	48	38,3	27,3	21,4	15,6	12,6	•	•	•	•	•	•	•
1.60V/cell	275	152	109	87	73,1	64,2	57,9	52,7	48,5	38,7	27,5	21,6	15,7	12,7	•	•	•	•	•	•	•

*: Battery consists of 6 cells

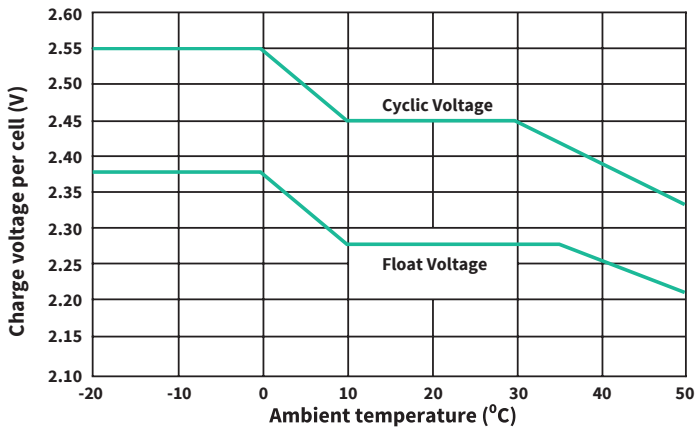
Charge characteristics



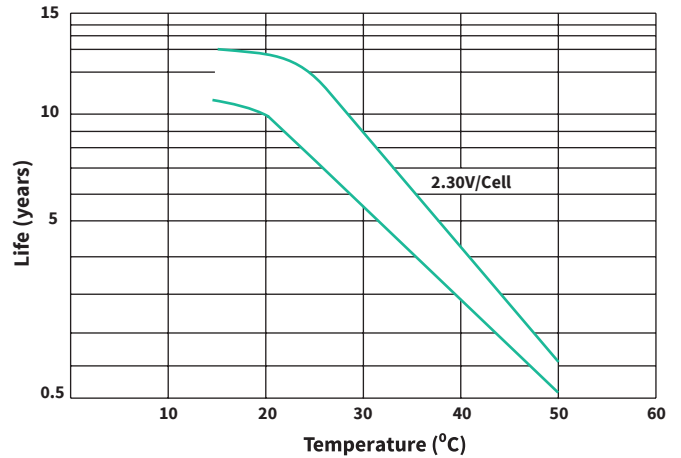
Discharge characteristics



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.

