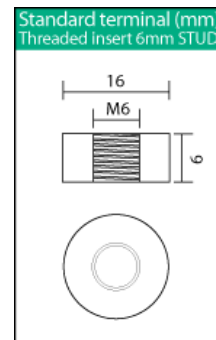
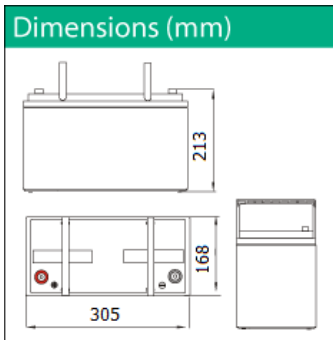


CPL 100 -12



**A G M Longlife-series**  
**10 years design life**



Nominal voltage	12 V	
Nominal Capacity 20HR,20°C):	100 Ah	
Internal resistance	Approx. 4.9 m Ω	
Maximum charging current	30.0 A	
Maximum discharge current	1200 A (5 sec.)	
Operating temperature range	-15°C 50°C	
Float use/ cycle use	13.5 - 13.8V/ 14.4 – 15.0V	
Expected life (20°C)	10 years in float (EUROBAT)	
Standard terminal	Threaded insert 6 mm	
Housing material	ABS	
Dimensions	length	305 mm (±2 mm)
	width	168 mm (±2 mm)
	height	213 mm (±2 mm)
Approx. Weight	32.0 kg	
Packing	1 pcs/box	

**Typical applications:**

- UPS and EPS systems
- Computerized data bases
- Life support equipment
- Air traffic power stations
- Security systems
- Military base

- Valve Regulated Maintenance Free
- Absorbent Glassmat Technology
- 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
- Cannot be charged while the terminal is downward.

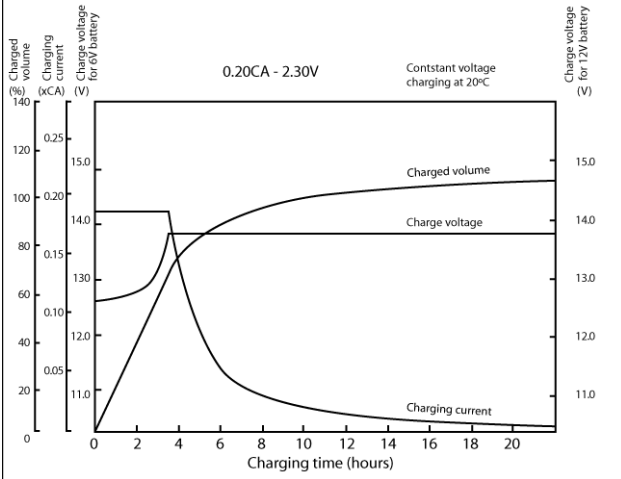
**Constant Current Discharge (Amperes) at 25 °C (77°F)**

F.V/TIME	5min	10min	15min	20min	25min	30min	45min	50min	60min	90min	2h	3h	4h	5h	6h	7h	8h	9h	10h	12h	20h
1.85V/cell	150.0	117.0	98.4	87.3	77.1	71.7	55.9	51.8	47.8	36.0	31.0	23.3	19.1	16.0	14.1	12.4	11.3	10.3	9.69	8.26	5.17
1.80V/cell	174.5	133.9	110.5	96.5	84.5	77.9	60.3	55.9	50.5	38.4	33.3	25.0	20.3	17.0	14.9	13.1	11.9	10.8	10.0	8.54	5.35
1.75V/cell	199.3	152.1	124.5	106.7	92.5	84.6	65.7	60.9	55.0	40.8	34.6	26.0	21.0	17.4	15.4	13.6	12.3	11.1	10.3	8.76	5.49
1.70V/cell	225.5	171.7	138.2	117.7	101.5	92.4	70.8	65.0	58.2	43.0	36.5	27.4	21.9	18.4	16.1	14.2	12.8	11.5	10.7	9.04	5.63
1.65V/cell	242.0	184.4	147.9	125.3	107.5	97.5	74.9	68.8	60.2	44.6	37.8	28.5	22.8	19.0	16.7	14.7	13.2	11.9	11.0	9.31	5.80
1.60V/cell	269.8	202.9	162.0	136.1	115.7	104.0	77.9	71.5	62.0	45.8	38.8	29.2	23.3	19.4	17.0	14.9	13.4	12.1	11.2	9.48	5.89

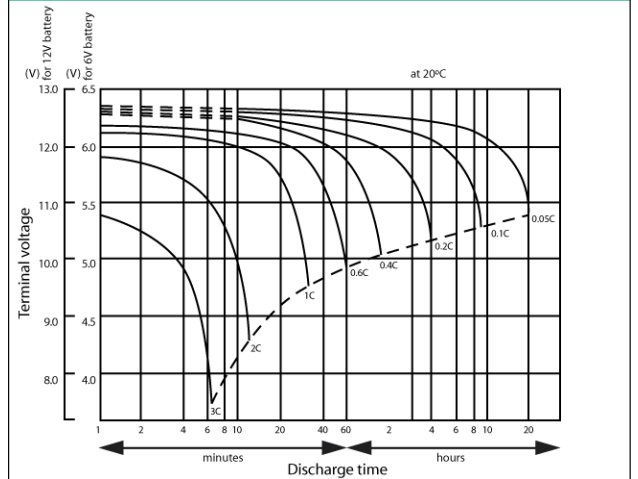
**Constant Power Discharge (Watts) at 25 °C (77°F)**

F.V/TIME	5min	10min	15min	20min	25min	30min	45min	50min	60min	90min	2h	3h	4h	5h	6h	7h	8h	9h	10h	12h	20h
1.85V/cell	277.3	218.5	185.6	166.3	147.8	138.0	108.2	100.8	93.2	70.4	60.7	45.8	37.7	31.8	27.9	24.8	22.5	20.6	19.4	16.5	10.3
1.80V/cell	319.2	247.1	205.6	181.2	159.4	147.7	115.4	108.0	97.8	74.7	64.8	49.0	39.8	33.5	29.4	26.0	23.6	21.5	20.0	17.1	10.7
1.75V/cell	356.8	276.2	228.9	198.3	173.0	159.2	124.9	117.0	106.1	78.9	67.2	50.7	41.0	34.2	30.3	26.8	24.3	22.1	20.5	17.5	10.9
1.70V/cell	396.9	308.4	251.6	217.3	188.6	172.8	134.1	124.3	112.0	83.1	70.6	53.3	42.8	36.1	31.7	28.0	25.3	22.9	21.2	18.0	11.2
1.65V/cell	415.5	324.5	266.2	229.5	198.2	180.9	140.7	130.5	115.0	85.5	72.8	55.2	44.3	37.1	32.7	28.9	26.1	23.6	21.8	18.5	11.6
1.60V/cell	452.7	348.9	286.8	246.6	211.4	191.7	145.1	134.9	117.8	87.4	74.3	56.4	45.2	37.9	33.3	29.3	26.5	24.0	22.2	18.8	11.7

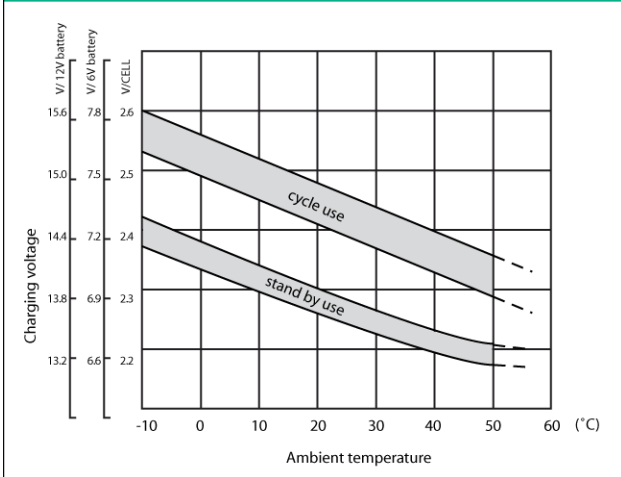
### Charging characteristics



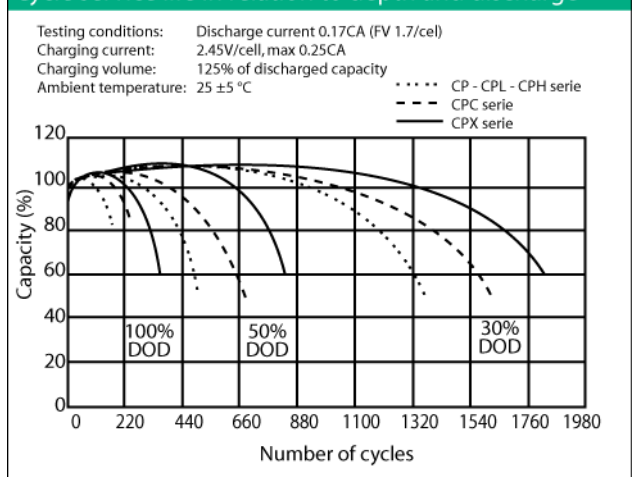
### Discharge characteristics curves



### Relationship between charging voltage and temperature



### Cycle service life in relation to depth and discharge



### Models available, Constant Power Discharge (Watts) at 25°C (77°F) 1.65V/c – Time, Weight

Model	5min	10min	15min	20min	25min	30min	50min	1h	1.5h	2h	4h	6h	8h	10h	20h	Weight
CPL 9 – 12L	53.4	37.8	29.1	24.2	20.9	18.0	11.9	10.6	7.63	6.19	3.73	2.69	2.11	1.76	0.93	2.75 kg
CPL 12 – 12	64.6	45.4	35.0	28.7	24.7	21.9	15.3	13.7	10.6	8.55	6.62	3.69	2.93	2.50	1.33	4.05 kg
CPL 18 – 12	96.9	68.0	52.6	43.1	37.1	32.8	23.0	20.6	15.9	12.8	7.97	5.54	4.40	3.75	1.99	6.0 kg
CPL 26 – 12	139.9	98.3	75.9	62.3	53.6	47.4	33.2	29.7	23.0	18.5	11.5	8.00	6.35	5.42	2.88	8.4 kg
CPL 28 – 12I	150.7	105.8	81.8	67.1	57.7	51.0	35.8	32.0	24.8	19.9	12.4	8.62	6.84	5.83	3.10	8.8 kg
CPL 28 – 12IA	150.7	105.8	81.8	67.1	57.7	51.0	35.8	32.0	24.8	19.9	12.4	8.62	6.84	5.83	3.10	9.5 kg
CPL 33 – 12*	294.3	197.0	149.6	122.2	104.1	90.1	60.3	51.9	36.8	29.0	15.6	11.1	8.67	7.39	3.82	11.7 kg
CPL 45 – 12I	187.0	146.0	119.8	103.3	89.2	81.4	58.7	51.7	38.5	32.8	19.9	14.7	11.8	9.81	5.20	14.5 kg
CPL 55 – 12I*	380.3	262.5	205.4	170.1	147.4	127.6	85.6	74.0	54.0	43.3	24.0	17.1	13.6	11.6	6.00	17.6 kg
CPL 65 – 12I	270.1	210.9	173.0	149.2	128.8	118.8	84.8	74.7	55.6	47.3	28.8	21.2	17.0	14.2	7.51	21.0 kg
CPL 80 – 12	311.6	243.3	199.6	172.1	148.7	135.7	97.9	86.2	64.1	54.6	33.2	24.5	19.6	16.4	8.67	23.0 kg
CPL 100 – 12	415.5	324.5	266.2	229.5	198.2	180.9	130.5	115.0	85.5	72.8	44.3	32.7	26.1	21.8	11.6	32.0 kg
CPL 135 – 12	581.6	454.3	372.6	321.3	277.5	253.2	182.7	161.0	119.7	101.9	62.1	45.8	36.6	30.5	16.2	45.5 kg
CPL 150 – 12	623.2	486.7	399.2	344.2	297.3	271.3	195.8	172.5	128.3	109.2	66.5	49.0	39.2	32.7	17.3	48.2 kg
CPL 250 – 12	811.2	665.4	573.7	495.5	456.8	353.1	326.3	287.5	213.8	182	138	110.8	92.8	81.7	72.2 kg	

\* High Rate