

MWP 12-12L

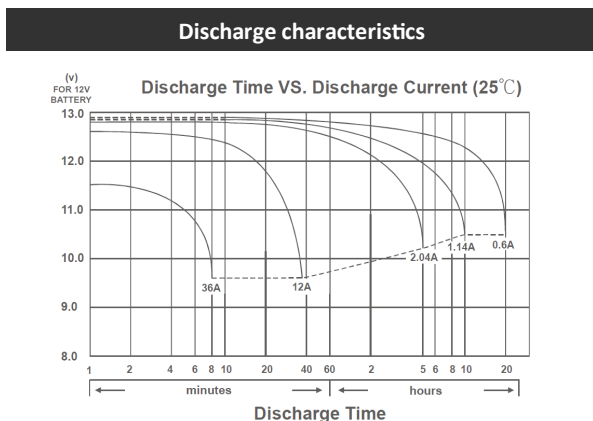
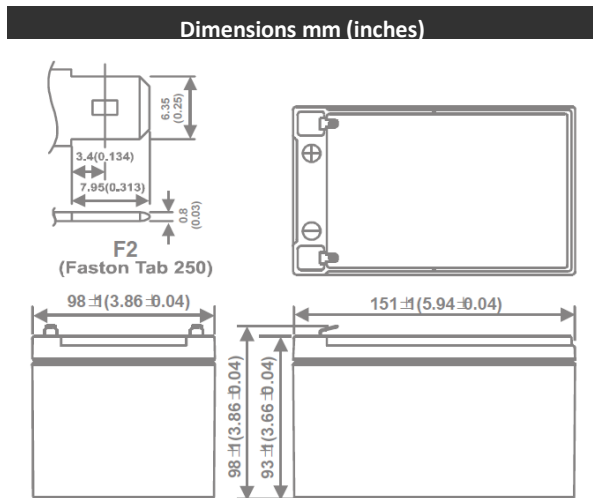
Compliance with standards:
 PN-EN 60896-21:2007
 PN-EN 60896-22:2007
 PN-EN 61056-1:2013-05
 PN-EN 61056-2:2013-05
 PN-E-83016:1999

MW Power cells of MWP Series are made in VRLA (AGM) technology and designed for use in emergency power systems and various applications requiring cyclic use. Possible use of these batteries include automation systems, UPS, energy source for mobile devices. For 50%

discharges MWP batteries can perform up to 600 charge-discharge cycles.

Designed service life is 12 years at working temperature of 20-25°C

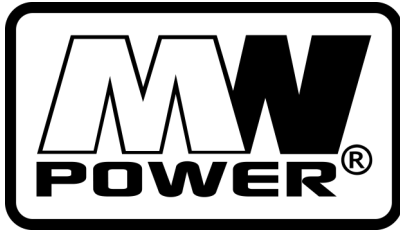
Specification		
Nominal Voltage		12V
Nominal Capacity		12Ah
Dimensions	Length	151 mm
	Width	98 mm
	Height	93 mm
	Total height	98 mm
Weight		4,02 kg



Characteristics		
Capacity for 25°C and cut-off voltage 10,2V	20h	12,4 Ah
	10h	12,0 Ah
	5h	10,9 Ah
Internal resistance	Fully charged battery	13 mΩ
Capacity	20°C	100%
	0°C	85%
	-15°C	65%
Self-discharge	3 months	90%
	6 months	80%
	12 months	65%
Terminal / Case Material	F2 / ABS UL94 HB	
Charging	Standby use:	13,5-13,8 V
	Cycle use:	14,4-15,0 V
Max. charge current	3,6A	
Max discharge current	180A / 5s	
Temperature:	Discharging	-20°C—50°C
	Charging	-20°C—50°C
	Storage	-20°C—50°C



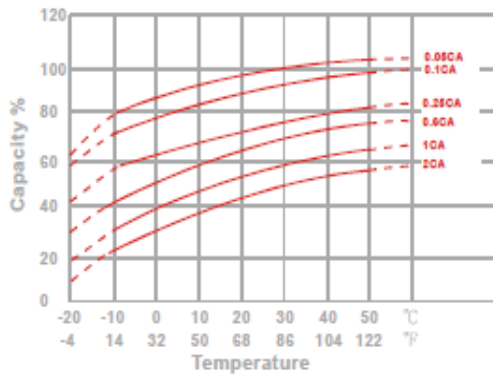
TRADE OFFICE:
 03-310 WARSZAWA
 ST. STANIEWICKA 14
 PHONE. 32 44 00 960
 FAX: 22 674 75 21,
 E-MAIL: HANDEL@MPLENERGY.PL



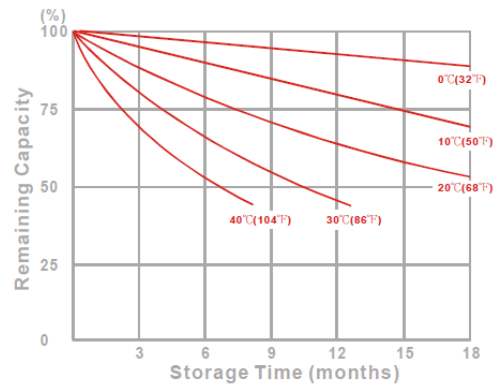
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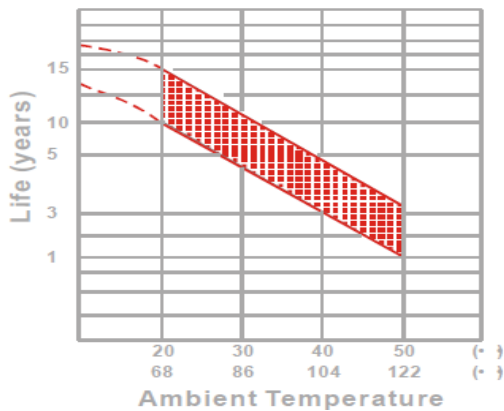
Temperature effect on capacity



Capacity Retention Characteristic



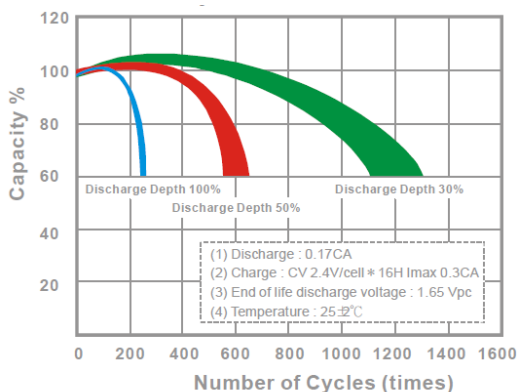
Service Life



Constant power discharge (Watt, 25°C)

Voltage	11,1 V	10,8 V	10,5 V	10,2 V	9,9 V	9,6V
5 min	505	536	569	584	598	627
10 min	362	378	392	397	405	413
15 min	272	283	291	295	299	306
30 min	168	174	180	182	184	187
60 min	95,2	100	103	104	105	106
120 min	51,6	54,1	55,3	55,7	56,3	57,1
180 min	36,9	39,2	40,1	41,8	42,6	43,2
240 min	29,8	31,3	32,2	32,6	33,1	33,7
300 min	26,1	27,1	27,9	28,3	28,6	29
600 min	15,3	15,7	16	16,1	16,2	16,3
1200 min	7,86	8,1	8,22	8,31	8,41	8,59

Cycle Service Life



Constant current discharge (A, 25°C)

Voltage	11,1 V	10,8 V	10,5 V	10,2 V	9,9 V	9,6V
5 min	41,8	44,6	47,5	48,8	50,1	52,7
10 min	30,3	31,5	32,7	33,2	33,8	34,6
15 min	22,6	23,7	24,6	25	25,4	26,1
30 min	13,5	14,1	14,6	14,8	15	15,3
60 min	8,74	8,86	8,97	9,02	9,08	9,16
120 min	4,84	4,95	5,04	5,08	5,13	5,18
180 min	3,33	3,4	3,46	3,49	3,52	3,56
240 min	2,26	2,35	2,42	2,45	2,49	2,74
300 min	2,06	2,12	2,18	2,2	2,23	2,27
600 min	1,22	1,24	1,26	1,27	1,28	1,29
1200 min	0,626	0,645	0,654	0,661	0,669	0,683



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