

MWP 28-12

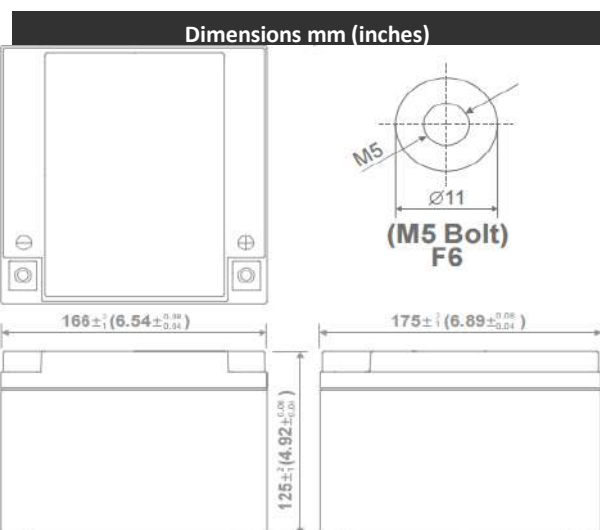
Compliance with standards:
 PN-EN 60896-21:2007
 PN-EN 60896-22:2007
 PN-EN 61056-1:2013-05
 PN-EN 61056-2:2013-05
 PN-E-83016:1999

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%

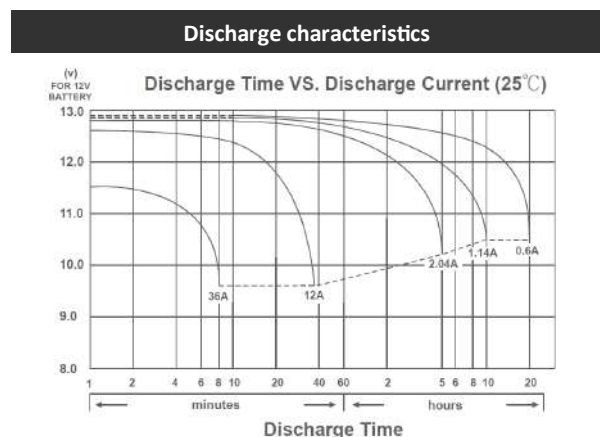
discharges MWP batteries can perform up to 600 charge-discharge cycles.

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

Specification		
Nominal Voltage		12V
Nominal Capacity		28 Ah
Dimensions	Length	166 mm
	Width	175 mm
	Height	125 mm
	Total height	125 mm
Weight		9,3 kg



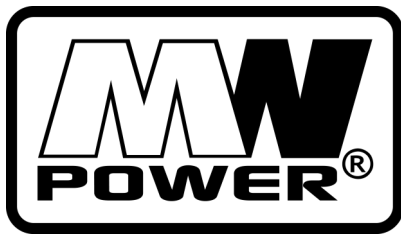
Recommended/max allowable torque value M5: 5Nm/6Nm



Characteristics		
Capacity for 25°C and cut-off voltage 10,2V	20h	28 Ah
	10h	26,0 Ah
	5h	24,5 Ah
Internal resistance	Fully charged battery	11 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	M5/ ABS UL94 HB	
Charging	Standby use:	13,5-13,8 V
	Cycle use:	14,4-15,0 V
Max. charge current	7,8 A	
Max discharge current	390A / 5s	
Temperature:	Discharging	-20°C—50°C
	Charging	-20°C—50°C
	Storage	-20°C—50°C



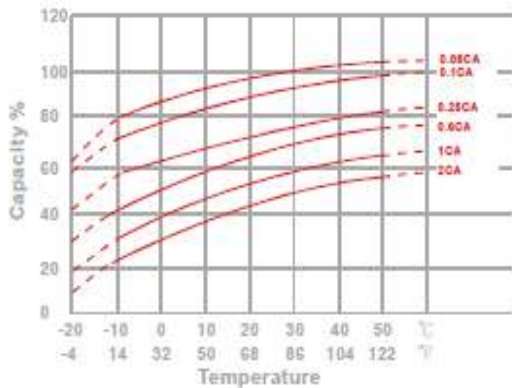
TRADE OFFICE:
 03-310 WARSZAWA
 ST. STANIEWICKA 14
 PHONE. 32 44 00 960
 FAX: 22 674 75 21,
 E-MAIL: HANDEL@MPLENERGY.PL



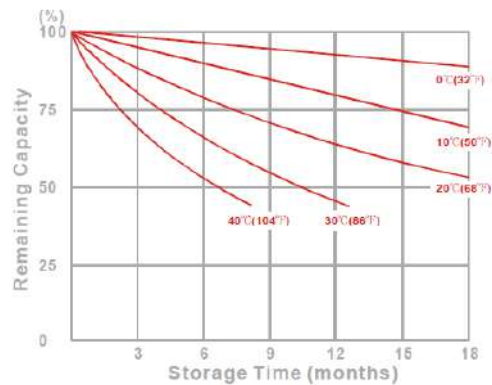
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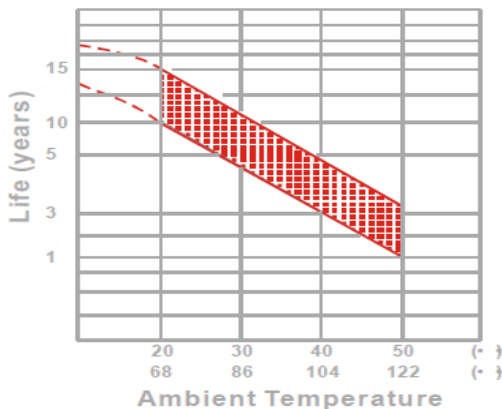
Temperature effect on capacity



Capacity Retention Characteristic



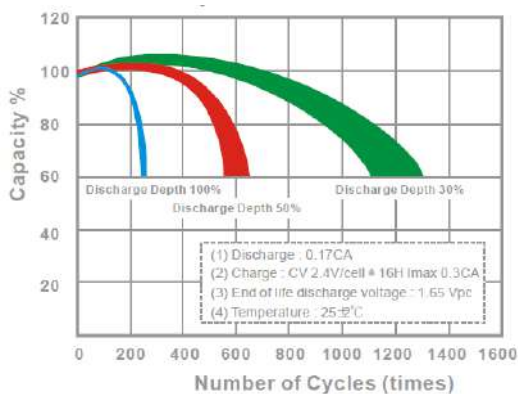
Service Life



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	968	1037	1109	1144	1175	1246
10 min	683	716	749	766	784	812
15 min	504	529	553	565	576	597
30 min	272	283	292	297	302	308
60 min	190	194	197	199	201	203
120 min	119	121	124	125	126	127
180 min	79,1	80,2	81,3	81,8	82,4	82,9
240 min	63,2	64	64,8	65,2	65,6	65,9
300 min	53,4	53,9	54,4	54,6	54,9	56,2
600 min	33,1	33,5	33,9	34,1	34,3	34,5
1200 min	16,1	16,4	16,7	16,8	16,9	17

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	92,9	103	109	111	113	115
10 min	62,1	64,2	68,2	70,4	72,3	75,7
15 min	46,4	49,8	52,6	54,3	54,9	56,2
30 min	23,8	25,2	26,5	27,2	27,8	28,8
60 min	16,1	16,5	16,9	17,1	17,3	17,5
120 min	9,72	9,87	10	10,1	10,2	10,3
180 min	6,63	6,72	6,83	6,87	6,92	6,99
240 min	5,61	5,69	5,76	5,79	5,84	5,91
300 min	4,86	4,93	5	5,02	5,05	5,08
600 min	2,61	2,65	2,69	2,71	2,74	2,77
1200 min	1,34	1,36	1,38	1,39	1,4	1,43



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