

MWP 18-12

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%

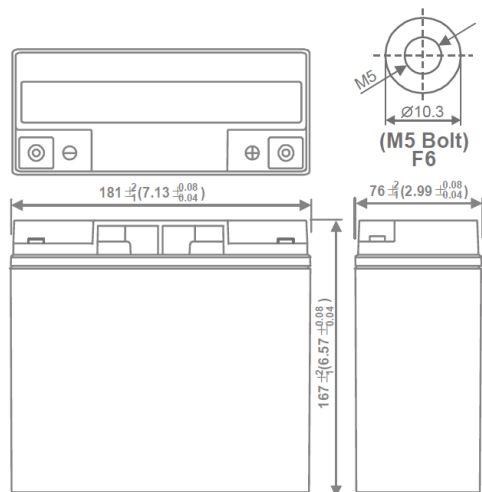
discharges MWP batteries can perform up to 600 charge-discharge cycles.

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

Specification		
Nominal Voltage		12V
Nominal Capacity		18 Ah
Dimensions	Length	181 mm
	Width	76 mm
	Height	167 mm
	Total height	167 mm
Weight		6,3 kg

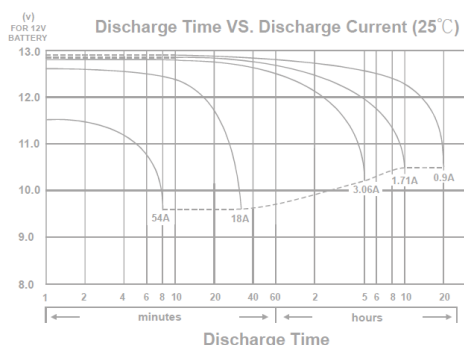


Dimensions (mm/inches)



Recommended/max allowable torque value M6: 7Nm/9Nm

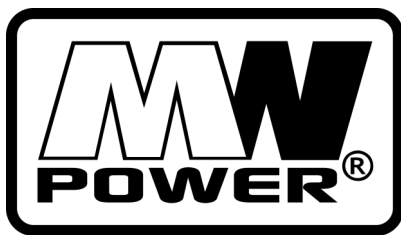
Discharge characteristics



Characteristics		
Capacity for 25°C and cut-off voltage 10,2V	20h	19 Ah
	10h	18 Ah
	5h	15,4 Ah
Internal resistance	Fully charged battery	10 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/UL94HB	
Charging	Standby use:	13,5-13,8 V
	Cycle use:	14,4-15,0 V
Max. charge current	5.4 A	
Max discharge current	270A / 5s	
Temperature:	Discharging	-20°C—50°C
	Charging	-20°C—50°C
	Storage	-20°C—50°C



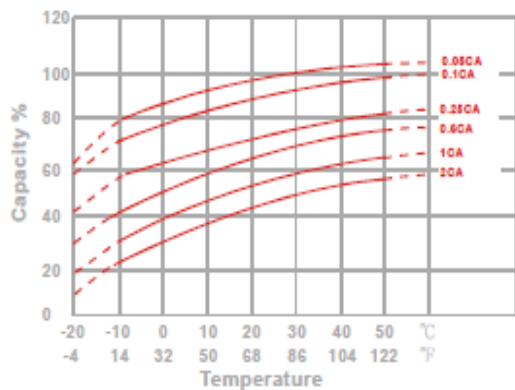
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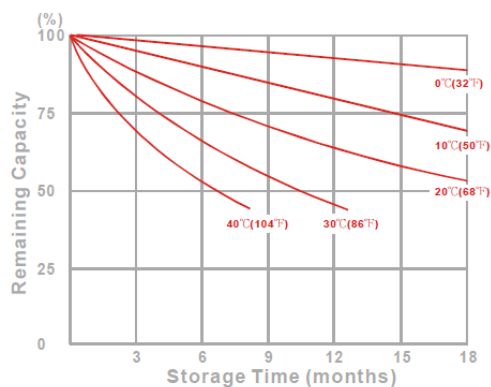
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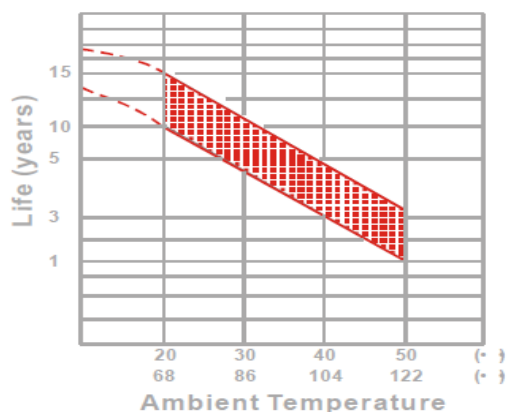
Temperature effect on capacity



Capacity Retention Characteristic



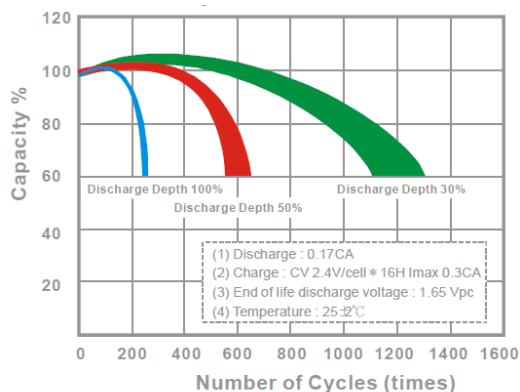
Service Life



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	708	780	822	834	846	858
10 min	484	529	556	562	572	579
15 min	411	440	459	463	469	474
30 min	213	229	239	241	244	247
60 min	127	133	136	138	139	142
120 min	73	75	78	78	79	80
180 min	54	55	57	57	58	58
240 min	43	44	45	45	45	46
300 min	37	37	38	38	38	39
600 min	22	22	22	22	23	2
1200 min	11	11	11	12	12	12

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	72,7	76,3	79,5	80,8	82,2	84,6
10 min	43,8	46,3	48,5	49,4	50,4	52,1
15 min	36,3	38	39,5	40,1	40,8	41,7
30 min	19,1	20,2	21,1	21,4	21,8	22,3
60 min	10,8	11,3	11,7	11,8	12	12,2
120 min	6,23	6,37	6,49	6,53	6,58	6,65
180 min	4,51	4,61	4,69	4,72	4,76	4,82
240 min	3,6	3,67	3,72	3,74	3,77	3,8
300 min	3,09	3,14	3,18	3,19	3,21	3,23
600 min	1,81	1,85	1,88	1,89	1,9	1,91
1200 min	0,958	0,973	0,984	0,987	0,991	0,995



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