

MWP 34-12

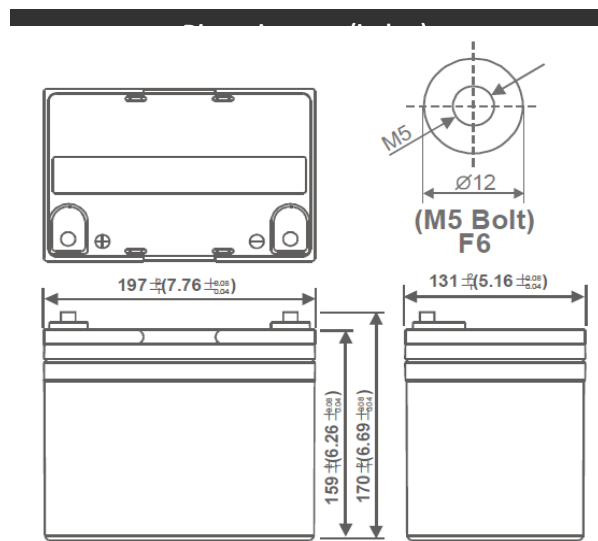
Compliance with standards:
 PN-EN 60896-21:2007
 PN-EN 60896-22:2007
 PN-EN 61056-1:2013-05
 PN-EN 61056-2:2013-05
 PN-E-83016:1999

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.

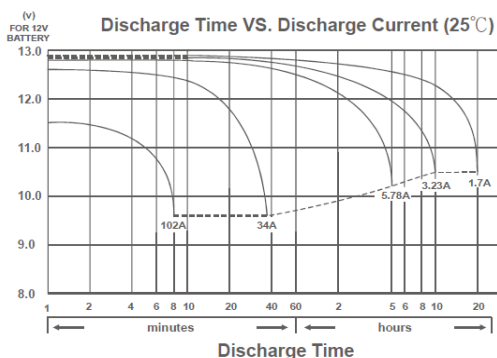
Designed service life is 12 years at working temperature of 20-25°C

Specification		
Nominal Voltage		12V
Nominal Capacity		34 Ah
Dimensions	Length	197 mm
	Width	131 mm
	Height	159 mm
	Total height	170 mm
Weight		10,5 kg



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

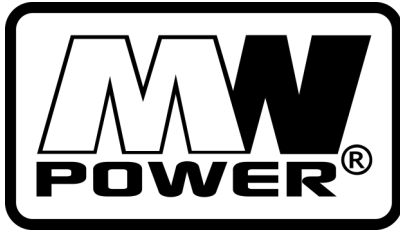
Discharge characteristics



Characteristics		
Capacity for 25°C and cut-off voltage 10,2V	20h	34,0 Ah
	10h	33,0 Ah
	5h	28,9 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	10,2 A	
Max discharge current	510A / 5s	
Temperature:	Discharging	-20°C—50°C
	Charging	-20°C—50°C
	Storage	-20°C—50°C



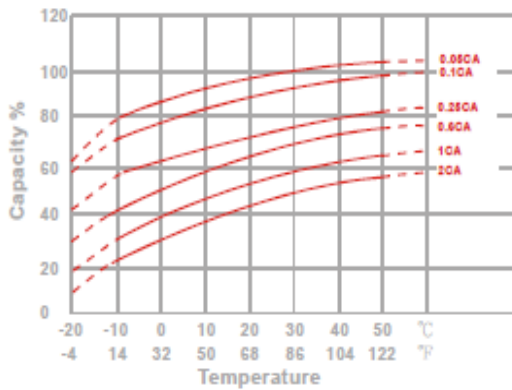
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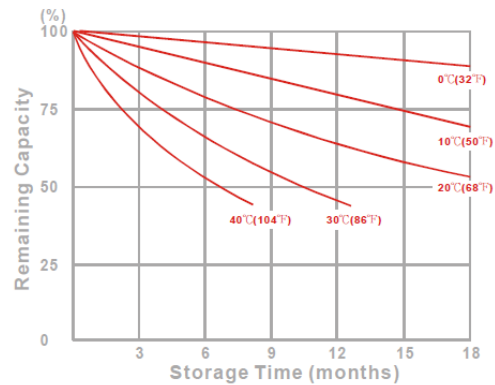
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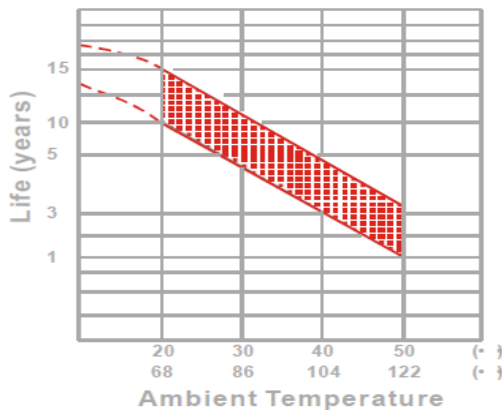
Temperature effect on capacity



Capacity Retention Characteristic



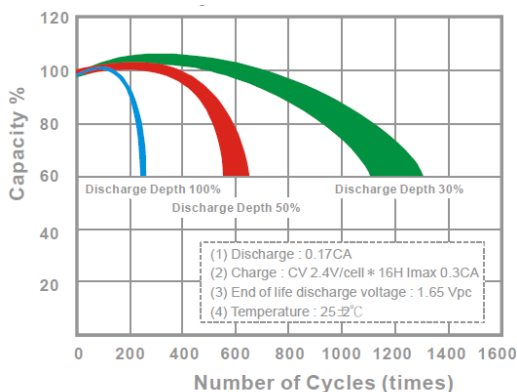
Service Life



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	992	1182	1302	1344	1386	1442
10 min	682	804	880	906	934	969
15 min	546	638	695	713	735	762
30 min	297	347	378	388	400	414
60 min	231	240	245	247	250	252
120 min	143	147	150	151	153	154
180 min	97,8	102	104	105	106	107
240 min	78,6	81,6	83,4	84,3	85,1	85,8
300 min	67,1	69,6	71,2	71,8	72,6	73,2
600 min	39,7	41,2	42,1	42,5	42,9	43,3
1200 min	20,8	21,6	22,1	22,3	22,5	22,7

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	109	123	132	135	139	143
10 min	71,4	77,5	81,8	83,7	86,2	89,3
15 min	58,6	63,4	66,1	66,9	67,8	69,2
30 min	33,5	35,1	36,4	36,8	37,3	37,9
60 min	19	19,9	20,6	20,8	21,1	21,4
120 min	11,4	11,9	12,3	12,4	12,6	12,8
180 min	8,37	8,73	8,99	9,06	9,14	9,27
240 min	6,35	6,73	6,92	6,97	7,04	7,15
300 min	5,59	5,75	5,88	5,93	5,99	6,07
600 min	3,22	3,32	3,41	3,44	3,47	3,51
1200 min	1,67	1,73	1,77	1,78	1,8	1,82



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