

MWP 55-12

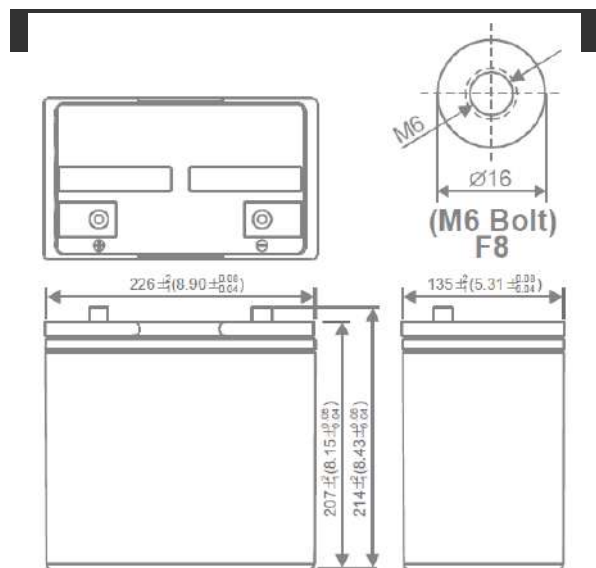
Compliance with standards:
 PN-EN 60896-21:2007
 PN-EN 60896-22:2007
 PN-EN 61056-1:2013-05
 PN-EN 61056-2:2013-05
 PN-E-83016:1999

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.

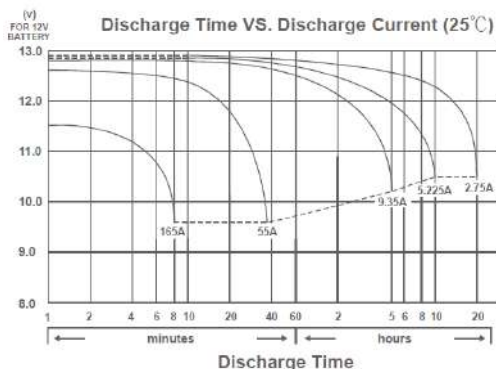
Designed service life is 12 years at working temperature of 20-25°C

Specification		
Nominal Voltage		12V
Nominal Capacity		55 Ah
Dimensions	Length	226 mm
	Width	135 mm
	Height	207 mm
	Total height	214 mm
Weight		17 kg



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

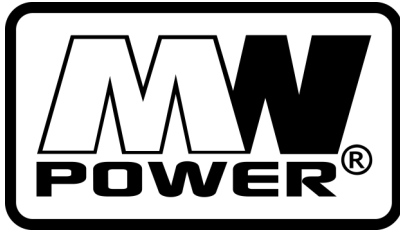
Discharge characteristics



Characteristics		
Capacity for 25°C and cut-off voltage 10,2V	20h	57 Ah
	10h	55 Ah
	5h	50 Ah
Internal resistance	Fully charged battery	8 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	M6/ ABS UL94 HB	
Charging	Standby use:	13,5-13,8 V
	Cycle use:	14,4-15,0 V
Max. charge current	16,5 A	
Max discharge current	660A / 5s	
Temperature:	Discharging	-20°C—50°C
	Charging	-20°C—50°C
	Storage	-20°C—50°C



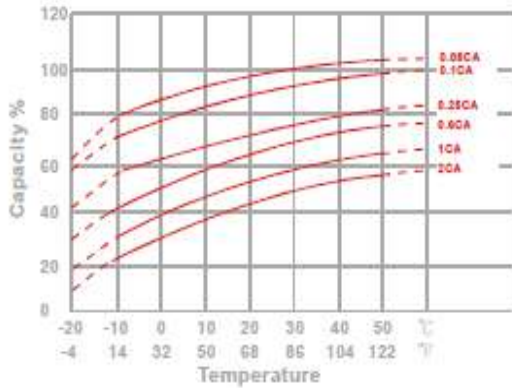
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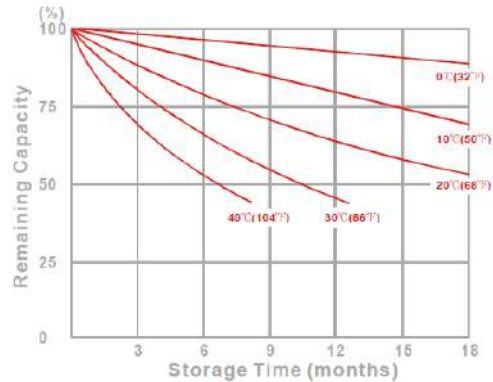
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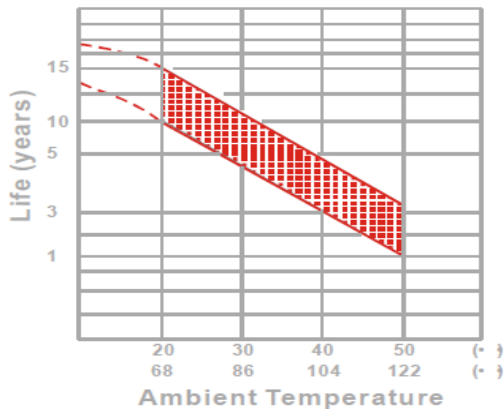
Temperature effect on capacity



Capacity Retention Characteristic



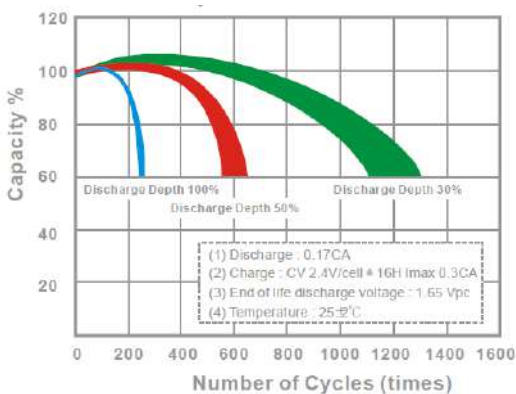
Service Life



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	2283	2478	2581	2603	2625	2661
10 min	1465	1590	1656	1670	1685	1708
15 min	1123	1210	1254	1265	1276	1292
30 min	597	642	663	670	678	687
60 min	405	416	425	428	432	436
120 min	208	217	223	225	227	230
180 min	169	175	179	180	182	184
240 min	138	142	145	146	147	148
300 min	116	120	122	123	124	125
600 min	66,7	68,4	69,5	69,5	69,9	70,4
1200 min	34,7	35,6	36,3	36,5	36,8	37,1

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	204	219	228	231	234	238
10 min	127	138	143	145	147	149
15 min	95,6	103	107	108	109	110
30 min	50,2	54,1	55,8	56,4	57	57,7
60 min	33,2	34,5	35,4	35,7	36,1	36,5
120 min	18,4	19,2	19,8	20	20,3	20,6
180 min	13,8	14,3	14,7	14,8	15	15,2
240 min	11,5	11,7	11,9	12	12,1	12,2
300 min	9,74	9,92	10,1	10,2	10,3	10,4
600 min	5,63	5,65	5,71	5,73	5,76	5,8
1200 min	2,89	2,96	3	3,01	3,03	3,05



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