

MWP 5-12L

Accordance with standards

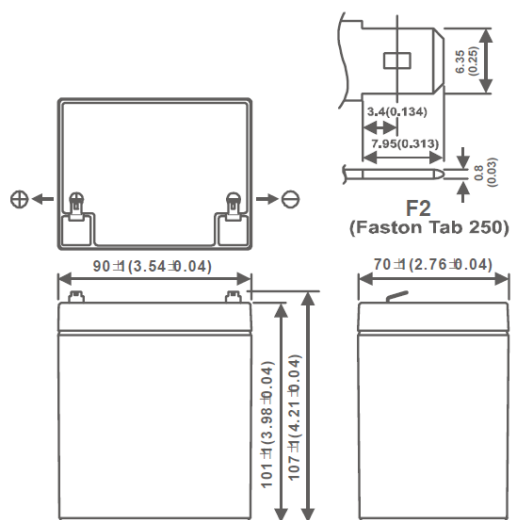
PN-EN 60896-21:2007
PN-EN 60896-22:2007
PN-EN 61056-1:2013-05
PN-EN 61056-2:2013-05
PN-E-83016:1999

MWP series MW Power batteries are made in VRLA (AGM) technology and they are dedicated to use in emergency power supply and also other different applications where battery works in cycle use. Preferred applications of this battery series: emergency power supply UPS, in automatic

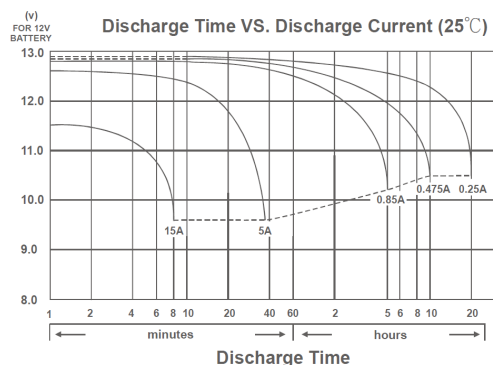
systems, as energy source in mobile devices, power supply for motors and other different devices in cycle use mode. 600 work cycles for 50% discharge. 12 years designed lifetime at 20-25°C.

Specification		
Nominal voltage		12V
Nominal capacity		5 Ah
Dimensions	Length	90 mm
	Width	70 mm
	Height	101 mm
	Total height	107 mm
Weight		1,9 kg

Dimennsions mm (inches)



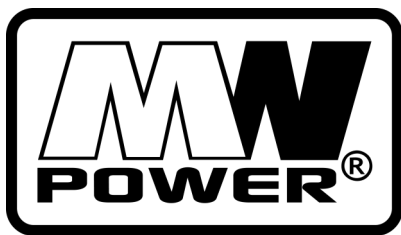
Discharge characteristic



Characteristic		
Capacity at 25°C and cutoff voltage of 10,2V	20h	5,50 Ah
	10h	5,00 Ah
	5h	4,50 Ah
Internal resistance	Battery fully charged	19 mΩ
Capacity	At 20°C	100%
	At 0°C	85%
	At -15°C	65%
Self-discharge	3 months	90%
	6 months	80%
	12 months	65%
Connector/Case	F18 / ABS UL94 HB	
Charging	Buffer	13,5-13,8 V
	Cyclic	14,4-15,0 V
Max charge current	1,5 A	
Max discharge current	75A / 5s	
Working temperature	Discharge	-20°C—50°C
	Charge	-20°C—50°C
	Storage	-20°C—50°C



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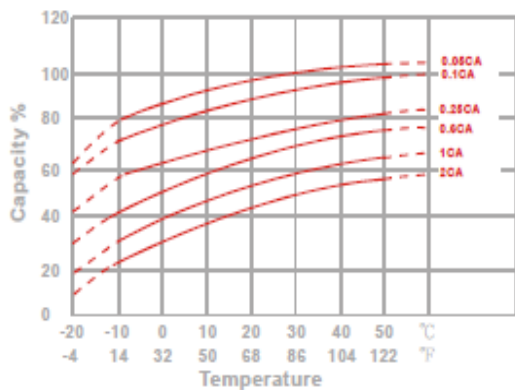


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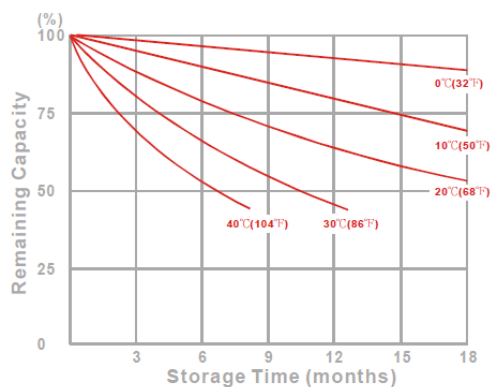
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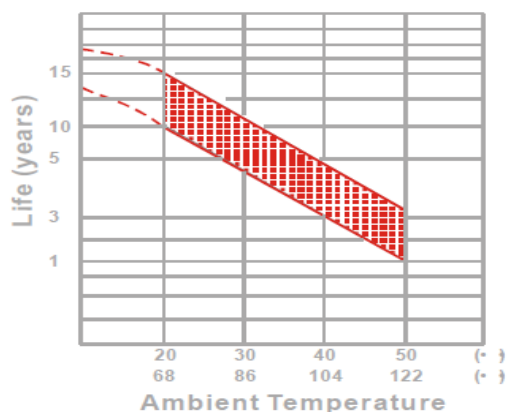
Temperature impact on battery capacity



Characteristic of capacity drop during storage



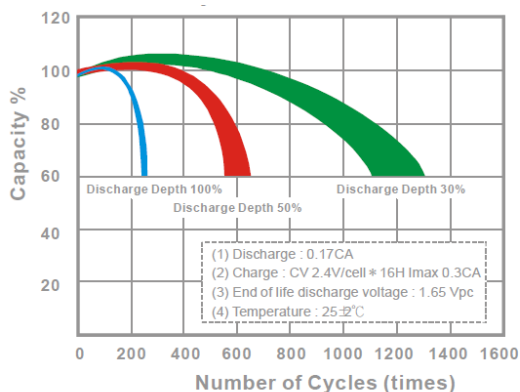
Battery lifetime for buffer use mode



Constant power discharge characteristic (Watt, 25°C)

Voltage	11,1 V	10,8 V	10,5 V	10,2 V	9,9 V	9,6V
5 min	237	249	261	266	273	282
10 min	166	175	181	184	188	194
15 min	127	131	135	137	139	142
30 min	70,3	72,7	75,1	75,9	76,8	77,5
60 min	37,6	38,8	40,2	40,9	41,6	42,4
120 min	20,3	21,2	21,9	22,3	22,8	23,5
180 min	16,3	17,1	17,8	18,1	18,4	18,9
240 min	12,9	13,6	14	14,2	14,4	14,7
300 min	11,2	11,7	11,9	12	12,1	12,3
600 min	6,53	6,89	7,02	7,08	7,14	7,23
1200 min	3,43	3,62	3,69	3,72	3,75	3,8

Battery lifetime for cycle use mode



Constant current discharge characteristic (A, 25°C)

Voltage	11,1 V	10,8 V	10,5 V	10,2 V	9,9 V	9,6V
5 min	21,7	23,9	25,8	26,4	27	27,8
10 min	14,8	15,7	16,2	16,6	16,9	17,3
15 min	10,5	10,9	11,1	11,2	11,3	11,5
30 min	6,15	6,26	6,38	6,42	6,47	6,55
60 min	3,2	3,38	3,46	3,49	3,53	3,59
120 min	1,7	1,79	1,87	1,91	1,94	1,99
180 min	1,35	1,41	1,47	1,49	1,52	1,55
240 min	1,07	1,11	1,15	1,16	1,18	1,21
300 min	0,898	0,919	0,942	0,953	0,962	0,978
600 min	0,506	0,514	0,521	0,524	0,529	0,535
1200 min	0,274	0,279	0,284	0,286	0,287	0,291



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