

MWP 100-12

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%

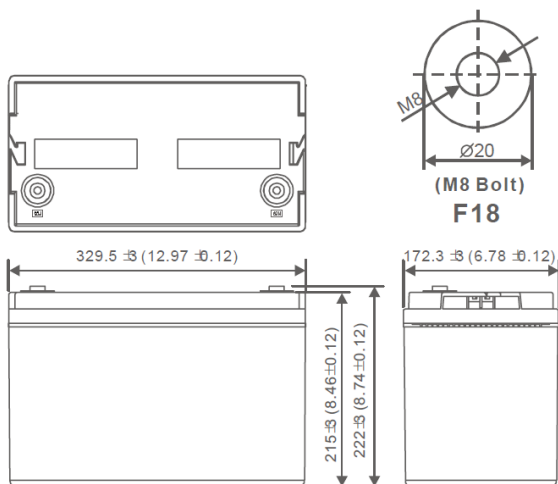
discharges MWP batteries can perform up to 600 charge-discharge cycles.

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

Specification		
Nominal Voltage		12V
Nominal Capacity		100 Ah
Dimensions	Length	329 mm
	Width	172 mm
	Height	215 mm
	Total height	222 mm
Weight		31,5 kg

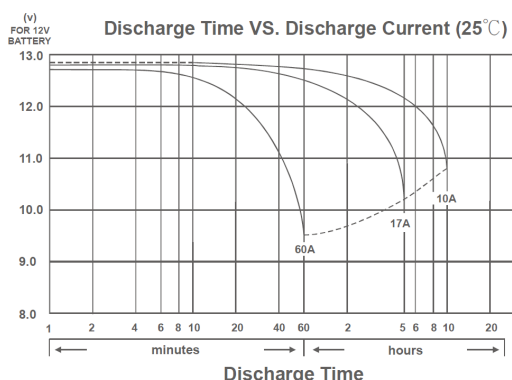


Dimensions mm (inches)



Recommended/max allowable torque value M8: 7Nm/9Nm

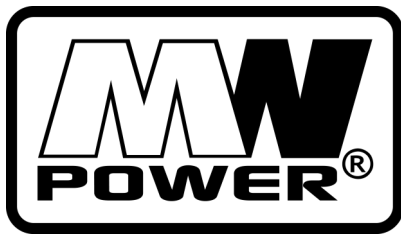
Discharge characteristics



Characteristics		
Capacity for 25°C and cut-off voltage 10,2V	20h	102 Ah
	10h	100 Ah
	5h	92 Ah
Internal resistance	Fully charged battery	4 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	M8 / ABS UL94-HB	
Charging	Standby use:	13,5-13,8 V
	Cycle use:	14,4-15,0 V
Max. charge current	30 A	
Max discharge current	1200A / 5s	
Temperature:	Discharging	-20°C—50°C
	Charging	-20°C—50°C
	Storage	-20°C—50°C



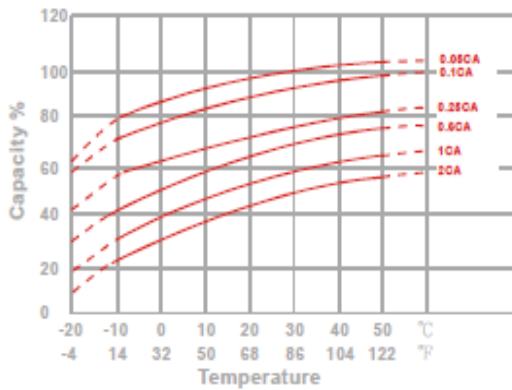
TRADE OFFICE:
 03-310 WARSZAWA
 ST. STANIEWICKA 14
 PHONE. 32 44 00 960
 FAX: 22 674 75 21,
 E-MAIL: HANDEL@MPLENERGY.PL



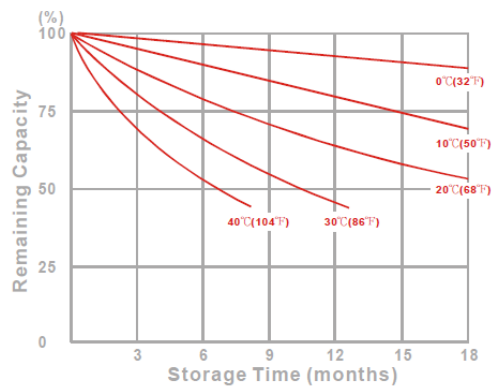
MWP 100-12

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

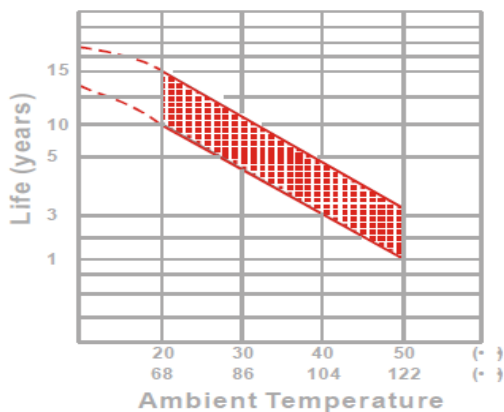
Temperature effect on capacity



Capacity Retention Characteristic



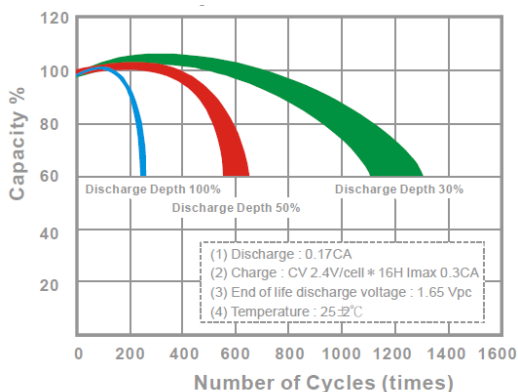
Service Life



Constant power discharge (Watt, 25°C)

Voltage	11,1 V	10,8 V	10,5 V	10,2 V	9,9 V	9,6V
10 min	2052	2220	2382	2484	2598	2790
15 min	1624,5	1795,5	1966,5	2040,6	2126,1	2183,1
30 min	1055,7	1132,2	1173	1193,4	1198,5	1213,8
60 min	664,2	712,8	756	761,4	772,2	783
120 min	415,53	444,6	465,69	470,25	473,67	480,51
180 min	299,4	319,2	331,2	333,6	340,2	349,2
240 min	239,4	255	265,8	268,2	272,4	276,6
300 min	200,4	213	223,8	226,2	228	229,8
600 min	112,8	115,2	115,8	118,2	120	121,2
1200 min	56,6	57	58,8	60,1	60,7	61,3

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
10 min	176	199	221	238	249	263
15 min	143,45	159,6	172,9	184,3	191,9	201,4
30 min	90,95	96,9	102	102,8	103,7	104,5
60 min	53,19	57,87	61,2	63,36	64,44	66,1
120 min	35,4	37,5	38,8	39,6	40,3	40,9
180 min	27,3	28,1	28,6	28,5	29,7	30,1
240 min	21	22,1	22,4	22,5	23,3	23,4
300 min	16,9	18,1	18,5	18,7	19,1	19,1
600 min	9,4	10,2	10,4	10,4	10,5	10,4
1200 min	4,9	5	5	5,2	5,3	5,3



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