



MWH 9-12L

12V 290W/10min

Compliance with standards

PN-EN 60896-21:2007
 PN-EN 60896-22:2007
 PN-EN 61056-1:2008
 PN-EN 61056-2:2003(U)
 PN-E-83016:1999

MW Power cells of MWH 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 MWH batteries can perform up to 500 charge-discharge cycles.

Designed service life 6-9 years to range of 20-25 °C.



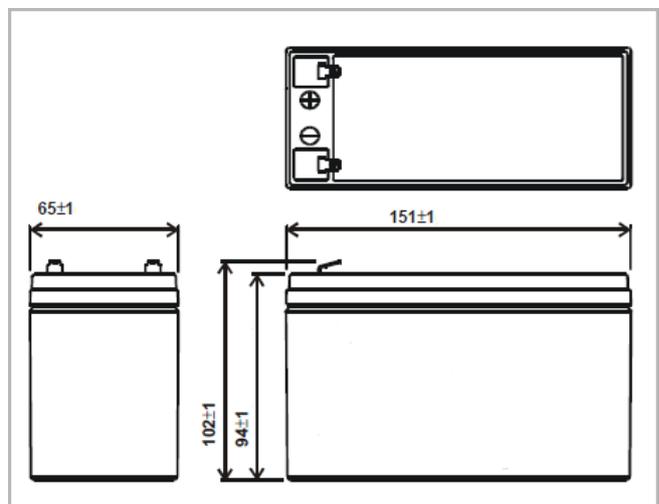
Specification

Nominal voltage	12V	
Capacity approx.	9 Ah	
Dimensions	Length	151 mm
	Width	65 mm
	Height	94 mm
	Total high	100 mm
Weight	2,75 kg	

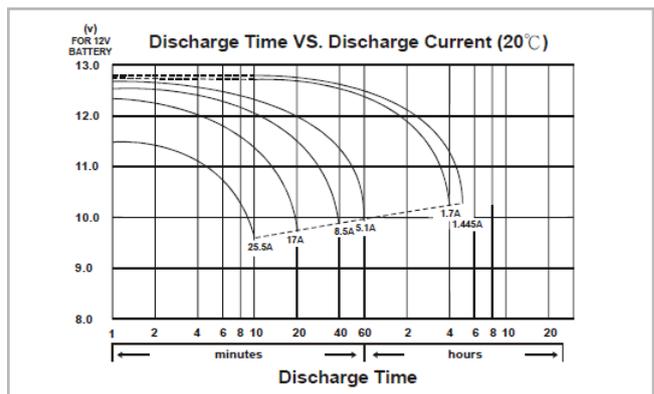
Characteristic

Power for discharge time	10min	290W
	15min	216W
	30min	120Ah
Internal resistance	charged battery	16 mΩ
Capacity	for 20°C	100%
	for 0°C	85%
	for -15°C	65%
Self-discharge	3 m-ths	91%
	6 m-ths	82%
	12 m-ths	64%
Terminal	Fast-on 250 (T2)	
Charging	Standby use	13,50-13,80V
	Cyclic use	14,40-15,00V
Max. charge current	2,7 A	
Max. discharge current	135 A (5 sec.)	
Temperatures of work:		
Discharging: -20°C ÷ 50°C		
Charging: -20°C ÷ 50°C		
Storage: -20°C ÷ 50°C		

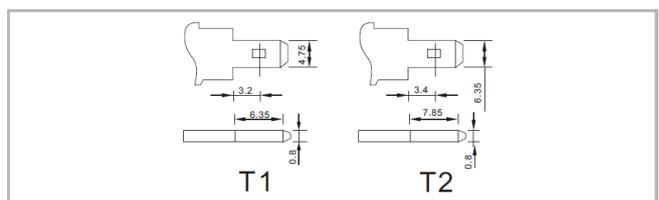
Dimensions



Input-discharge at 25 °C



Terminal



Discharge Rates in Watts to Various End Voltages at 25°C (77°F)

End Voltage		11.10V	10.80V	10.50V	10.20V	9.90V	9.60V
Time							
5	min	342	365	392	411	431	452
10	min	219	234	252	264	277	290
15	min	168	176	185	194	203	216
30	min	96.0	101	106	111	116	121
60	min	59.8	61.8	63.2	63.9	64.5	64.5
120	min	31.5	32.6	33.3	33.7	34.0	34.0
180	min	25.4	26.2	26.8	27.1	27.4	27.4
240	min	20.4	21.1	21.5	21.8	22.0	22.0
300	min	17.3	17.9	18.3	18.5	18.7	18.7
600	min	9.70	10.1	10.3	10.4	10.5	10.5
1200	min	5.12	5.29	5.41	5.47	5.53	5.53

- Discharge Rates in Amperes to Various End Voltages at 25°C (77°F)

End Voltage		11.10V	10.80V	10.50V	10.20V	9.90V	9.60V
Time							
5	min	30.5	32.6	35.0	36.7	38.5	40.3
10	min	19.1	20.4	21.9	22.9	24.1	25.2
15	min	14.3	14.9	15.8	16.5	17.3	18.0
30	min	8.09	8.45	8.93	9.35	9.77	10.19
60	min	5.00	5.17	5.29	5.34	5.40	5.40
120	min	2.63	2.72	2.78	2.81	2.83	2.83
180	min	2.11	2.18	2.23	2.25	2.27	2.27
240	min	1.69	1.74	1.78	1.80	1.82	1.82
300	min	1.43	1.48	1.51	1.53	1.55	1.55
600	min	0.80	0.83	0.85	0.86	0.86	0.86
1200	min	0.42	0.44	0.45	0.45	0.45	0.45



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