



# MWL 9-12L

## 12V 280W/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

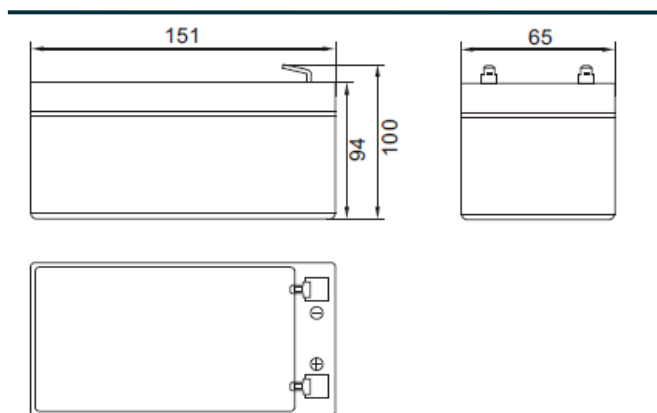


Batteries **MW Power** series **MWL** are designed mainly for use in emergency power systems e.g. UPS, central batteries, etc. Designed service life 10-12 years for 20-25°C. They also can work cyclically and reach 500 cycles for discharging up to 50%.

### Specification

Nominal voltage	12V	
Capacity approx.	9 Ah	
Dimensions	Length	151 mm
	Width	65 mm
	Height	94 mm
	Total height	100 mm
Weight	2,7 kg	

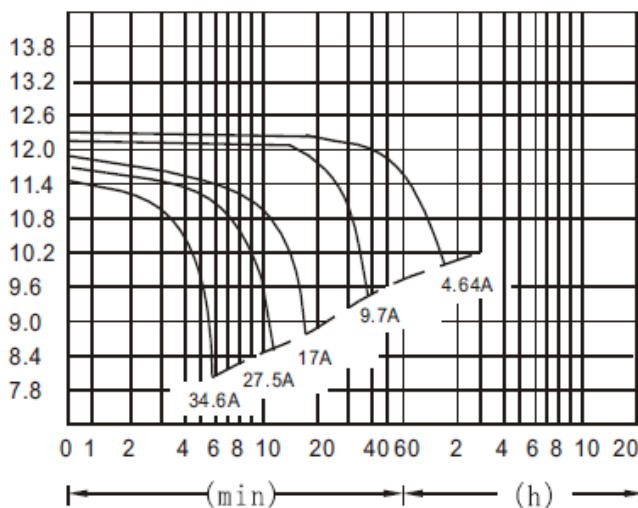
### Dimensions



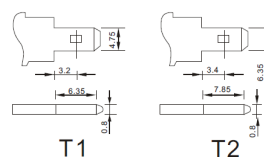
### Characteristics

Power for discharge time	10 min	280W
	15 min	210W
	30 min	119W
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	2,6 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		

### Input-discharge at 25 ° C



### Terminal





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### Charakterystyka stałomocowa (W) oraz stałoprądowa (A) dla MWL 9-12L

#### 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	335	358	385	403	423	443
10	min	215	230	247	258	271	284
15	min	165	172	182	190	199	207
30	min	94.3	98.6	104	109	114	119
60	min	58.6	60.6	61.9	62.6	63.2	63.2
120	min	30.9	31.9	32.6	33.0	33.3	33.3
180	min	24.9	25.7	26.3	26.6	26.9	26.9
240	min	20.0	20.7	21.1	21.3	21.6	21.6
300	min	17.0	17.6	17.9	18.1	18.3	18.3
600	min	9.53	9.86	10.07	10.2	10.3	10.3
1200	min	5.02	5.19	5.30	5.36	5.42	5.42

#### - 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	29.9	32.0	34.3	36.0	37.7	39.5
10	min	18.7	20.0	21.5	22.5	23.6	24.7
15	min	14.0	14.6	15.5	16.2	16.9	17.6
30	min	7.92	8.28	8.75	9.16	9.57	9.98
60	min	4.90	5.07	5.18	5.24	5.29	5.29
120	min	2.57	2.66	2.72	2.75	2.78	2.78
180	min	2.06	2.13	2.18	2.21	2.23	2.23
240	min	1.65	1.71	1.75	1.76	1.78	1.78
300	min	1.40	1.45	1.48	1.50	1.52	1.52
600	min	0.78	0.81	0.83	0.84	0.85	0.85
1200	min	0.41	0.43	0.44	0.44	0.45	0.45