

LEAD ACID (AGM) BATTERY

MR9-12

Specification	
Cells Per Unit	6
Voltage Per Unit	12V
Nominal Capacity	9Ah@20hour-rate to 1.75V per cell @25°C
Weight	Approx. 2.30 Kg (Tolerance \pm 5.0%)
Internal Resistance	≤22 mΩ(Full Charge Condition @25°C)
Terminal	Default F2,F1 Optional
Max. Discharge Current	90A (5 sec)
Short Circuit Current	450A
Design Life	6~8 years
Max. Charging Current	2.7 A
Reference Capacity	C3 6.75Ah C5 7.65Ah C10 8.41Ah C20 9.00Ah
Standby Use Voltage	13.7 V~13.9 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.6 V~14.8 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
Normal Operating Temperature Range	25°C±5°C
Self Discharge	Marvel Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25°C.Please charge batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



MR series is a general purpose battery with 6~8 years design life in float service. It meets with IEC, JIS, BS,GB/T and YD/T standards. With advanced AGM valve regulated technology and high purity raw material, the MR series battery maintains high consistency for better performance and reliable standby service life. It is suitable for UPS/EPS, medical equipment, emergency light and security system applications.







ISO 9001

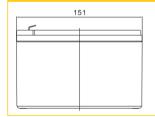
ISO 14001

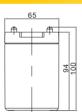
ISO 45001

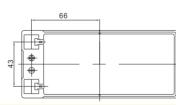


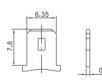


Dimensions









F2 Terminal

В	
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[] 0.8	

Length	151±1.5mm (5.94 inches)						
Width	65±1.5mm (2.56 inches)						
Height	94±1.5mm (3.70 inches)						
Total Height	100±1.5mm (3.94 inches)						
Terminal	Value						
M5	6~7 N*m						
M6	8~10 N*m						
M8	10~12 N*m						

U	lnit:	mm

Constant Current Discharge Characteristics : A (25 C)												
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	35.17	24.62	17.62	10.12	5.499	3.376	2.538	2.049	1.698	1.093	0.887	0.469
1.65V	32.71	23.26	16.85	9.716	5.310	3.268	2.460	1.994	1.654	1.080	0.877	0.461
1.70V	29.51	21.41	15.78	9.287	5.137	3.161	2.393	1.939	1.611	1.064	0.863	0.456
1.75V	26.44	19.60	14.68	8.876	4.950	3.050	2.321	1.890	1.570	1.049	0.852	0.450
1.80V	23.21	17.74	13.56	8.484	4.760	2.941	2.250	1.835	1.530	1.031	0.841	0.446
1.85V	18.43	14.50	11.25	7.307	4.270	2.695	2.080	1.706	1.426	0.968	0.792	0.423

Constant Power Discharge Characteristics : W/Cell (25°C)												
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	58.30	41.84	30.80	18.38	10.33	6.399	4.848	3.934	3.273	2.134	1.744	0.923
1.65V	54.85	40.30	29.89	17.83	10.04	6.225	4.718	3.842	3.200	2.114	1.726	0.909
1.70V	50.61	37.78	28.41	17.22	9.770	6.053	4.610	3.751	3.127	2.087	1.702	0.899
1.75V	46.35	35.21	26.82	16.62	9.470	5.868	4.491	3.669	3.059	2.062	1.681	0.890
1.80V	41.57	32.43	25.12	16.05	9.161	5.687	4.369	3.577	2.991	2.031	1.662	0.882
1.85V	33.69	26.97	21.14	13.96	8.267	5.239	4.057	3.337	2.798	1.911	1.567	0.838

