

MERLION AGM

General Series battery

GP Series VRLA batteries are designed with AGM (Absorbent Glass Mat) technology, High performance plates and electrolyte to give extra power output for common power backup system. GP Series Batteries are the general purpose batteries with 5 years floating design life at 25°C, Meet with IEC,BS,JIS and Eurobat standard,UL(MH62092),CE approved.

Application

- * Emergency Power System
- Communication equipment
- * Telecommunication systems
- * Uninterruptible power supplies
- Electric toy car and wheelchairs, etc.

General Features

- * Heavy Duty Grid
- Mechanized assembly
- Non-spillable construction
- High Reliability and Stability
- Sealed and Maintenance-free
- Long Life and low self-discharge design

- * Power tools
- * Alarm system
- * Marine equipment
- * Medical equipment
- * Fire and Security System



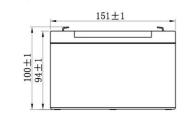
Construction

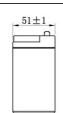
- Positive · · · · Lead dioxide
- Electrolyte · · · · Sulfuric acid
- * Negative · · · · · Lead * Safety Valve · · · · EPDR
- * Separator · · · Fiber glass
- * Terminal · · · · · · Copper
- * Container ··· · ABS(UL94-HB)/Flame Retardant ABS (UL94-V0)

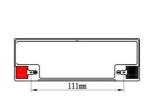
Specification

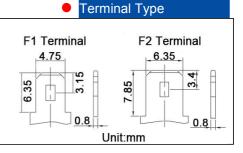
Battery Model	Nominal V	oltage		6V (3 cells per unit)						
Dattery Woder	Rated capacity (2	rate)	14Ah							
Dimension	Length		Width	Height		Total Height				
Dimension	150mm (5.94 inches)	50mm (2.00 inches) 95mm (3.70 inches)		nches)	100mm (3.94 inches)					
Approx Weight	1.71kg(3.68 lbs) ± 3%									
Internal Resistance	Full charged at 25°C(77°F):Approx 8.32mΩ									
Maximum Charge Current	4,2A									
Max.discharge current	180A (5Sec.)									
Short-circuit current	430A									
Operating Temperature	Nominal Operating Temperature	Discharge		Charge		Storage				
Range	25℃(77 ℉)	-15℃~ 50℃(5℉~122℉)		-15℃~ 40℃(5℉~104℉)		-15℃~ 40℃(5℉~104℉)				
Capacity @ 25°C	20 hour rate(0.636A,5.25V)	10 hοι	ır rate(1.172A,5.25V)	3 hour rate(3.29A,5.10V)		1 hour rate(7.63A,4.80V)				
(77°F)	12.72Ah	11.72Ah		9.87Ah		7.63Ah				
Capacity affected by	40℃ (104℉)		25℃ (77℉)	0℃ (32℉	·)	-15℃ (5℉)				
Temp.(20HR)	102%		100%	85%		65%				
Charge method	Float Charging Voltage		Equalization Cha	arging Voltage	Cycle Use Voltage					
at 25°C(77°F)	6.75~6.90 VDC (-3mV/cell/°	C)	7.05~7.20 VDC	(-4mV/cell/°C)	7.20~7.50 VDC (-5mV/cell/°C)					

Outer dimension (mm)









Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)

F.V/Time	е	5min	10min	15min	20min	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	Α	33.5	23.5	19.0	16.10	12.30	6.98	4.30	3.10	2.060	1.378	1.138	0.620
	W	64.1	45.4	37.0	31.60	24.30	13.93	8.63	6.24	4.170	2.795	2.314	1.266
1.80V/cell	Α	36.6	25.2	19.8	16.64	12.62	7.15	4.40	3.17	2.100	1.402	1.157	0.628
	W	69.1	48.2	38.4	32.50	24.87	14.24	8.81	6.38	4.240	2.840	2.351	1.281
1.75V/cell	Α	39.5	26.8	20.6	17.17	12.93	7.31	4.49	3.24	2.136	1.424	1.172	0.636
	W	73.7	50.9	39.7	33.40	25.42	14.53	8.98	6.49	4.310	2.882	2.380	1.297
1.70V/cell	Α	42.3	28.3	21.3	17.68	13.33	7.45	4.57	3.29	2.169	1.444	1.187	0.643
	W	78.0	53.3	40.8	34.30	26.15	14.78	9.13	6.60	4.370	2.920	2.408	1.311
1.67V/cell	Α	43.7	29.0	21.6	17.93	13.48	7.52	4.62	3.32	2.185	1.452	1.193	0.646
	W	80.1	54.4	41.3	34.80	26.41	14.91	9.22	6.65	4.400	2.935	2.420	1.316
1.60V/cell	Α	46.5	30.2	22.2	18.40	13.68	7.63	4.70	3.36	2.210	1.467	1.203	0.651
	W	84.3	56.2	42.3	35.60	26.75	15.11	9.37	6.72	4.450	2.964	2.439	1.326



