



FM100G (2V100Ah)

LONGWAY® FM100G is a long service life battery up to 15 years expected life under normal float charge. As with all LONGWAY® batteries, all are rechargeable highly efficient, leak proof and maintenance free.



ISO 9001:2008 Standard



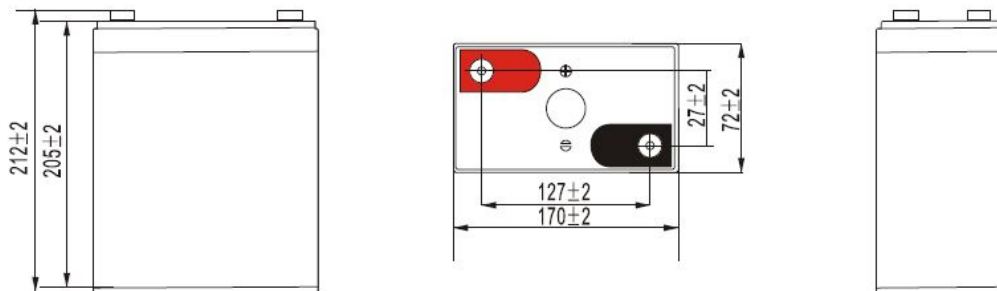
ISO 14001:2004 Standard



Specifications:

Cells per Unit	1
Normal Voltage	2V
Capacity	100Ah@10Hr-rate to 1.80V per cell@25°C
Weight	Approx. (6.0±3%kg)(13.63lbs)
Maximum Discharge Current	500A(5sec)
Internal Resistance	Approx. 1.4mΩ full charged @25°C
Operating Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
Nominal Operating Temperature Range	25°C±3°C
Float Charging Voltage	2.25~2.30VDC/unit Average @25°C
Maximum Charging Current	20A
Equalization and Cycle Service	2.40V~2.45VDC/unit Average @ 25°C
Self Discharge	LONGWAY Valve Regulated Lead Acid (VRLA) batteries can be stored for more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using.
Terminal	Thread insert & Bolt (F13)
Container Material	ABS(UL94-HB) *Flammability resistance of (UL94-V0) can be available upon request

Dimensions: L171*W72*H205(TH212)mm



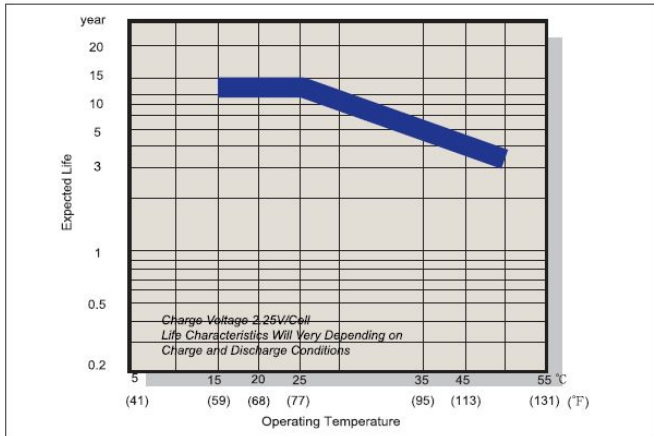
Constant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	24h
1.60	136	106	66	40	29	19	14	10	5.3	4.6
1.65	126	98	61	39	29	19	14	10	5.3	4.6
1.70	130	101	63	39	29	19	14	10	5.3	4.6
1.75	126	98	61	39	29	19	14	10	5.3	4.6
1.80	124	96	60	38	28	18	13	10	5.3	4.6

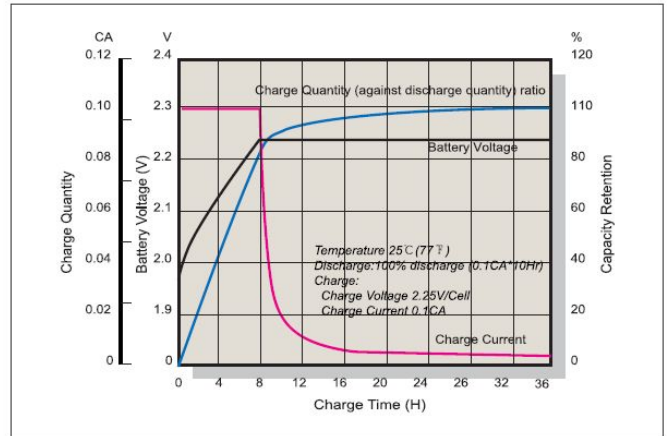
Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	24h
1.60	244	195	125	73	58	37	27	20	11	9.3
1.65	227	182	117	72	57	37	27	20	11	9.2
1.70	234	187	120	72	57	37	27	20	11	9.2
1.75	227	182	117	72	57	37	27	20	11	9.1
1.80	222	178	114	70	56	36	26	20	11	9.1

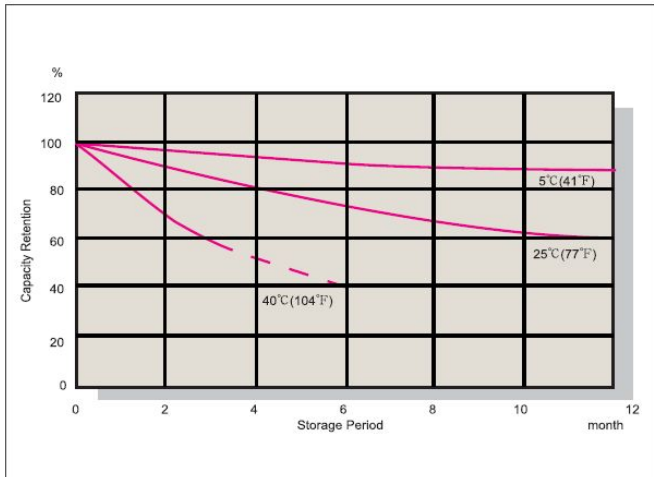
Expected Life V.S Operating Temperature



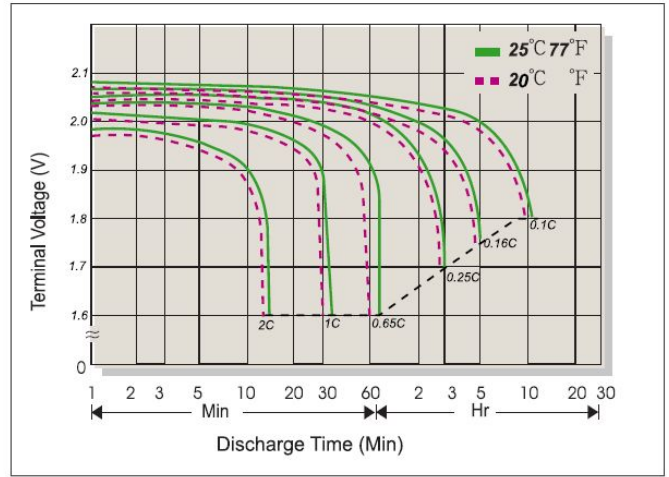
Typical Constant Voltage Charge Characteristics



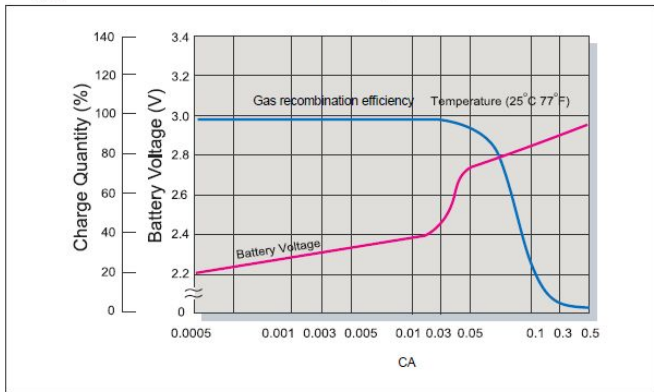
Capacity Retention Characteristics



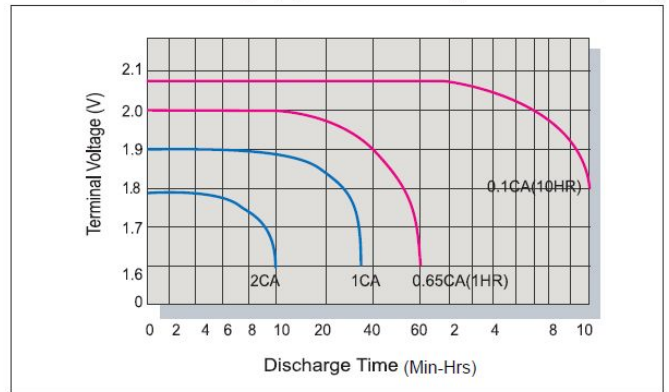
Discharge Characteristics



Oxygen Recombination Efficiency Chart



Terminal Voltage (V) and Discharge Time 25°C(77°F)



Charging Procedures

Application	Charge Voltage(V/cell)			Max. Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25°C(77°F)	2.45	2.40~2.50	0.2C
Standby	25°C(77°F)	2.25	2.25~2.30	

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.80	1.75	1.70	1.60
Discharge Current (A)	0.1C≥(A)	0.1C<(A)	0.2C<(A)	(A)>0.4C

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