



## FM1000G (2V1000Ah)

LONGWAY® FM1000G 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



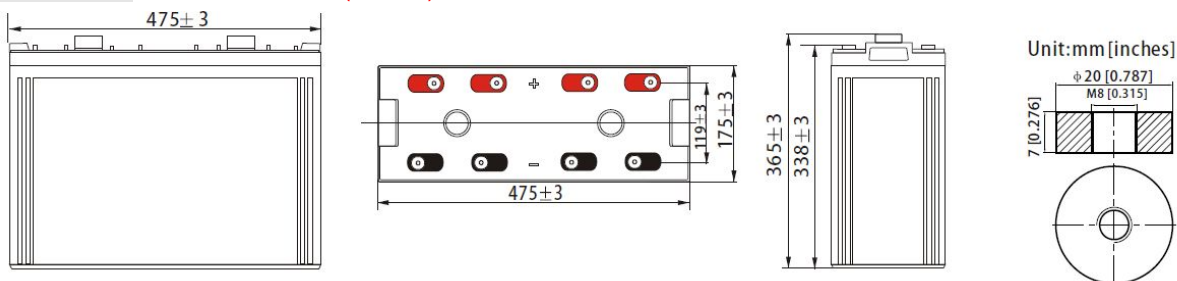
ISO 14001:2004 Standard



### Specifications:

Cells per Unit	1
Normal Voltage	2V
Capacity	1000Ah@10Hr-rate to 1.80V per cell@25°C
Weight	Approx.(60.0±3%kg)(132.28lbs)
Maximum Discharge Current	5000A(5sec)
Internal Resistance	Approx. 0.55mΩ 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	200A
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: L475\*W175\*H338(TH365)mm



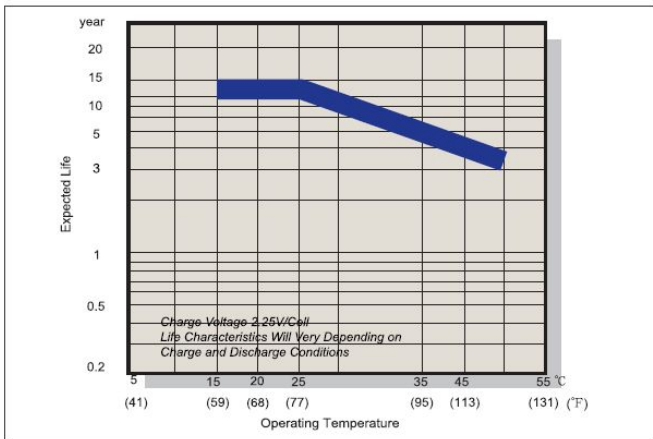
### stant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	24h
1.60	1355	1055	655	396	292	188	137	101.5	53.3	46.3
1.65	1260	981	609	394	291	187	136	101.3	53.2	46.2
1.70	1301	1013	629	392	289	186	136	100.6	52.8	45.9
1.75	1260	981	609	390	288	185	135	100.3	52.7	45.7
1.80	1236	962	597	382	282	181	132	100.0	52.5	45.6

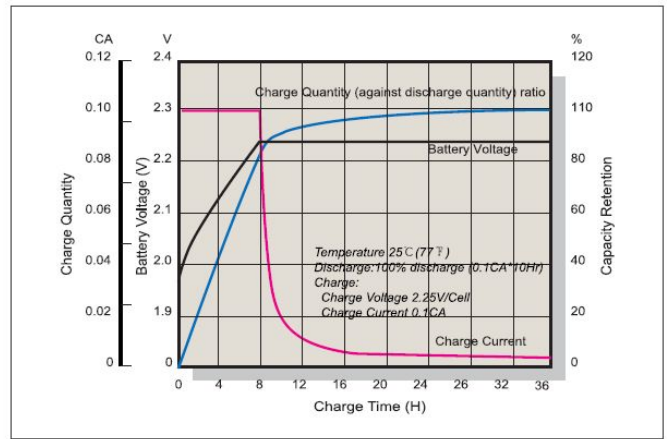
### Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	24h
1.60	2439	1952	1254	728	577	374	273	203	106.6	92.6
1.65	2268	1815	1167	725	574	372	272	203	106.4	92.4
1.70	2341	1874	1204	721	572	370	271	201	105.6	91.7
1.75	2268	1815	1167	718	569	368	269	201	105.3	91.5
1.80	2224	1780	1144	703	557	361	264	200	105.0	91.2

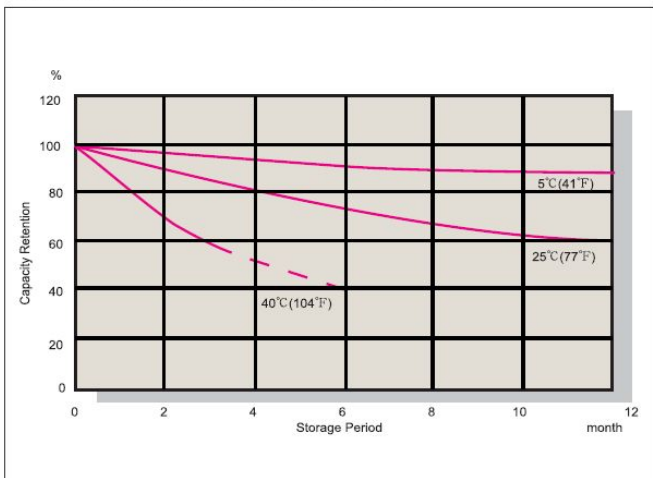
### Expected Life V.S Operating Temperature



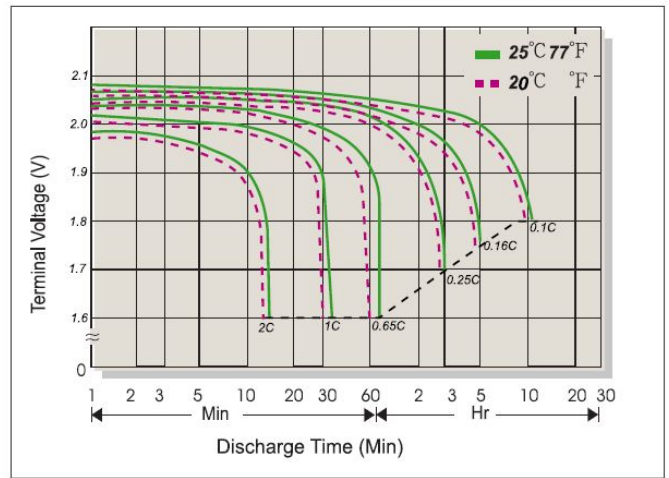
### Typical Constant Voltage Charge Characteristics



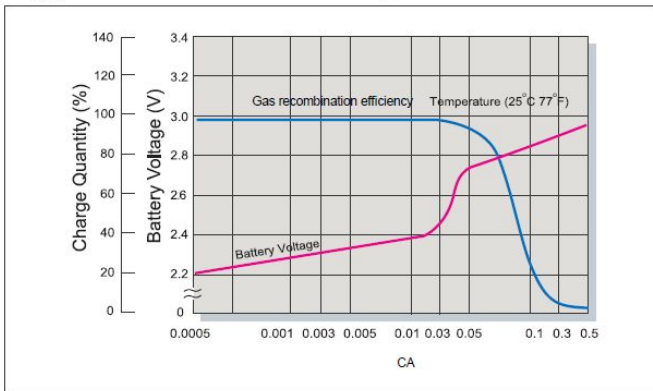
### Capacity Retention Characteristics



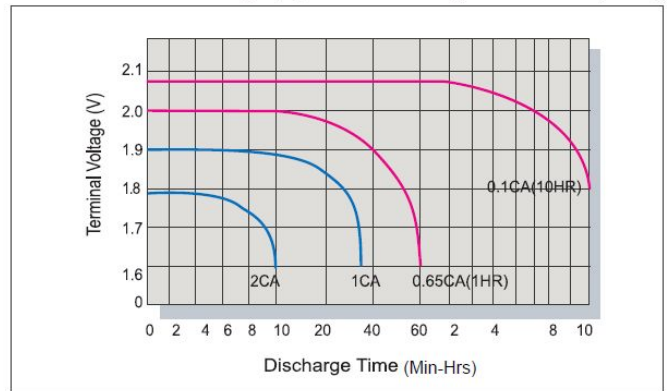
### Discharge Characteristics



### 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
		<0.2C	<0.4C	

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