



FM1000G/E (2V1000Ah)

LONGWAY® FM1000G/E 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



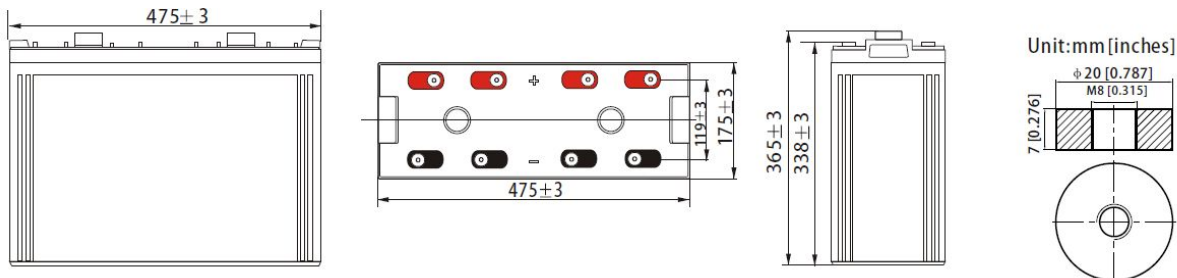
ISO 14001:2004 Standard



Specifications:

Cells per Unit	1
Normal Voltage	2V
Capacity	1000Ah@10Hr-rate to 1.80V per cell@25°C
Weight	Approx.(59.0±3%kg)(130.07lbs)
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



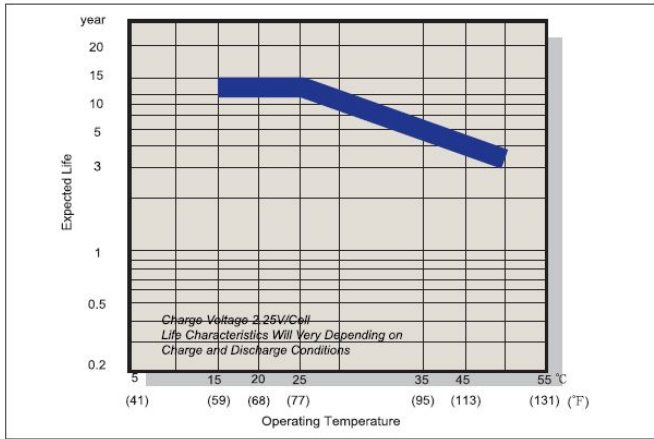
stant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	24h
1.60	1300	1000	640	390	287	183	132	102	53.3	46.3
1.65	1209	930	595	389	286	182	131	101	53.2	46.2
1.70	1248	960	614	387	284	181	131	101	52.8	45.9
1.75	1209	930	595	385	283	180	130	100	52.7	45.7
1.80	1186	912	584	377	277	176	127	100	52.5	45.6

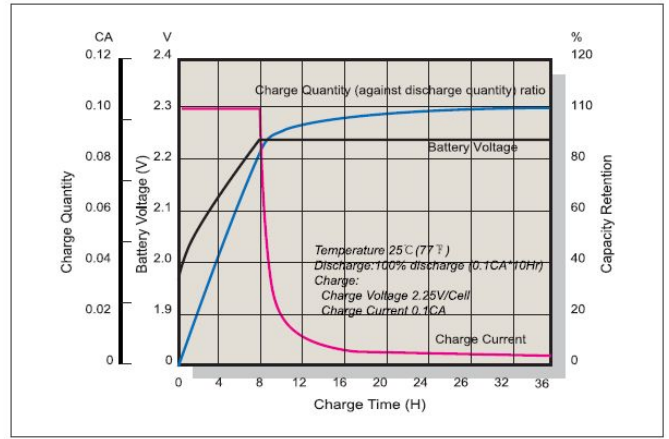
Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	24h
1.60	2340	1850	1226	717	567	364	263	203	107	92.6
1.65	2176	1721	1140	715	565	362	262	203	106	92.4
1.70	2246	1776	1177	712	562	360	261	201	106	91.7
1.75	2176	1721	1140	708	559	358	259	201	105	91.5
1.80	2134	1687	1118	694	548	351	254	200	105	91.2

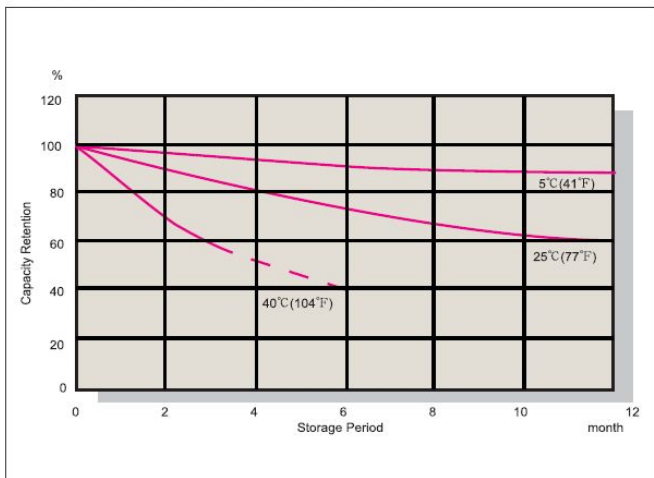
Expected Life V.S Operating Temperature



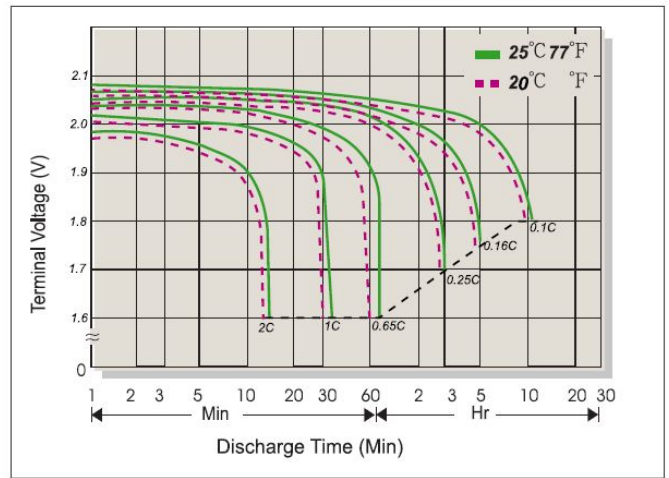
Typical Constant Voltage Charge Characteristics



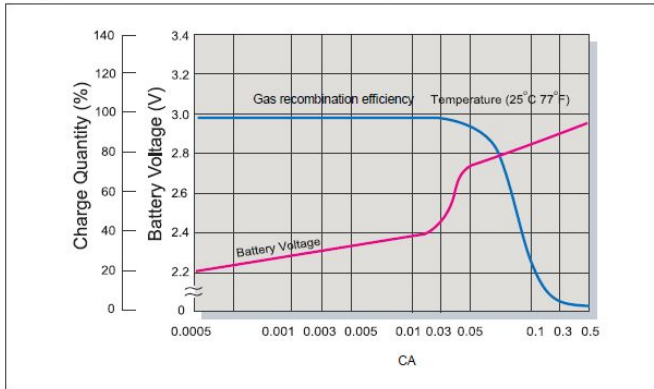
Capacity Retention Characteristics



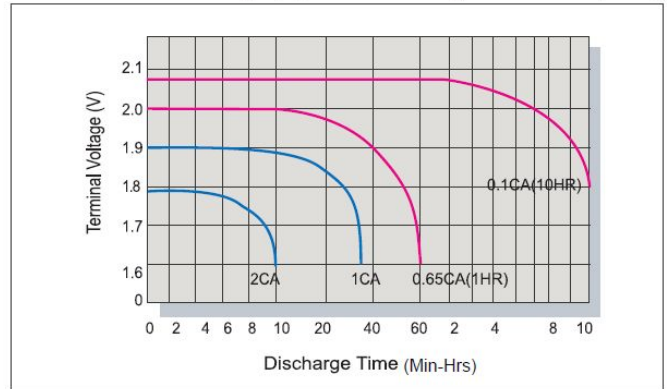
Discharge Characteristics



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		

KaiYing Power Supply & Electrical Equip Co., Ltd.

Address: KaiYing Industrial Park, ChengXiang Town, Anxi, Quanzhou, Fujian China

Tel:86-595-68782266 Fax: 86-0595-68782222

Website: www.longwaybattery.com Email: Sales@longwaybattery.com