

# FM2000G (2V2000Ah)



**LONGWAY® FM2000G** 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



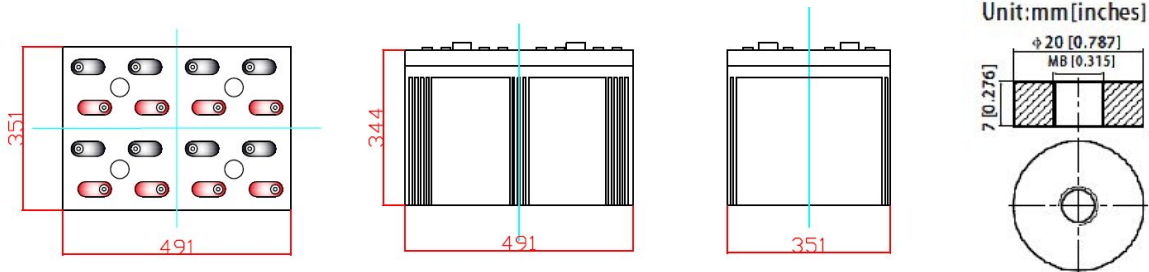
ISO 14001:2004 Standard



### Specifications:

Cells per Unit	1
Normal Voltage	2V
Capacity	2000Ah@10Hr-rate to 1.80V per cell@25°C
Weight	Approx.(110.0±3%kg)(242.51lbs)
Maximum Discharge Current	10000A(5sec)
Internal Resistance	Approx. 0.09mΩ 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	400A
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: L491\*W351\*H344 (TH383)mm



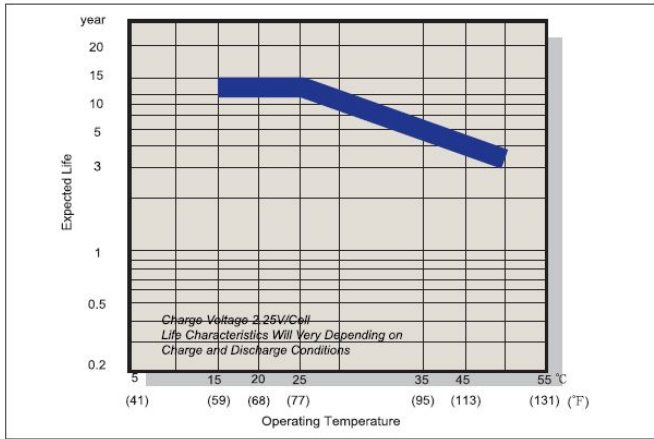
### stant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
1.60V	3300	2700	1800	1300	730.8	517.7	369.5	243.6	203.0	106.6
1.70V	3135	2592	1728	1248	720.0	510.0	364.0	241.4	201.2	105.6
1.80V	2947	2462	1642	1186	705.6	499.8	356.7	240.0	200.0	105.0

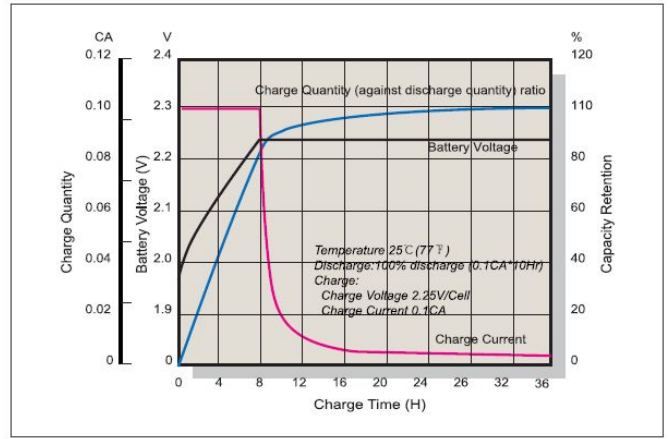
### Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
1.60V	5940	4941	3366	2470	1410	1015	727.8	487.2	404.0	213.2
1.70V	5643	4743	3231	2371	1390	1000	717.1	482.9	400.4	211.3
1.80V	5304	4506	3070	2253	1362	980	702.7	480.0	400.4	210.0

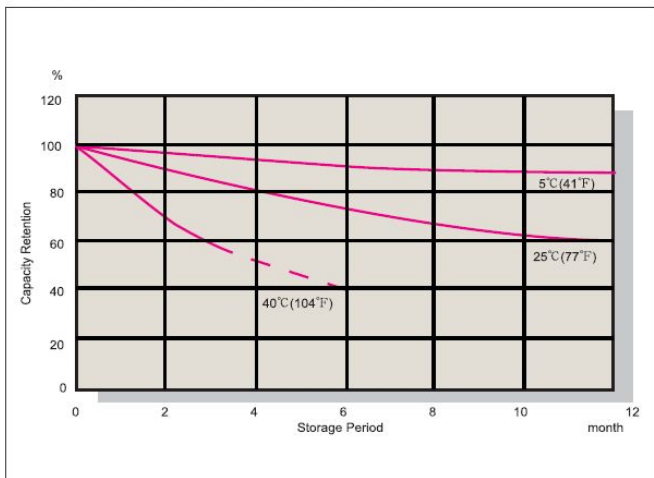
### Expected Life V.S Operating Temperature



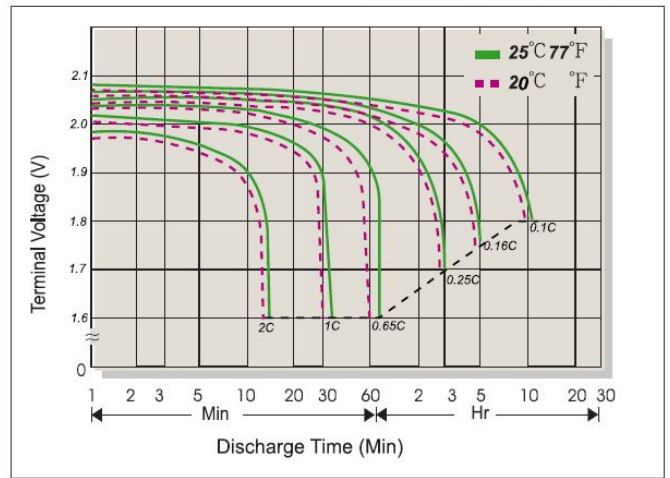
### Typical Constant Voltage Charge Characteristics



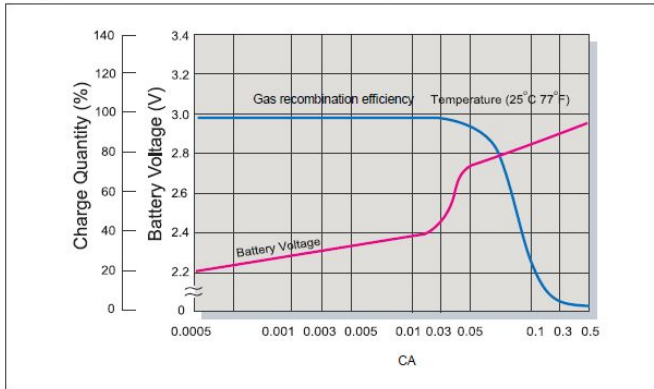
### Capacity Retention Characteristics



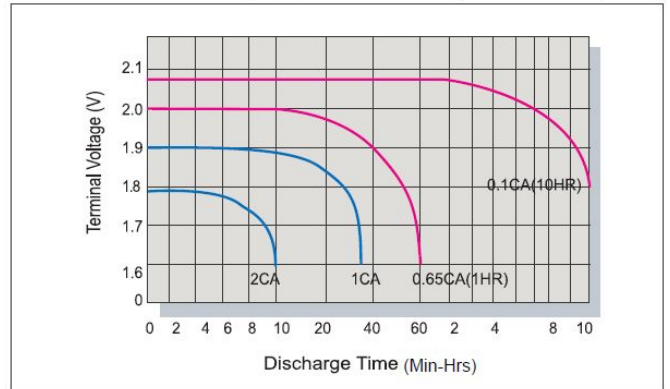
### Discharge Characteristics



### 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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