



## FM800G/E (2V800Ah)

LONGWAY® FM800G/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.



### Specifications:

Cells per Unit	1
Normal Voltage	2V
Capacity	800Ah@10Hr-rate to 1.80V per cell@25°C
Weight	Approx. (50.0±3%kg)(110.23lbs)
Maximum Discharge Current	4000A(5sec)
Internal Resistance	Approx. 0.6mΩ 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	160A
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



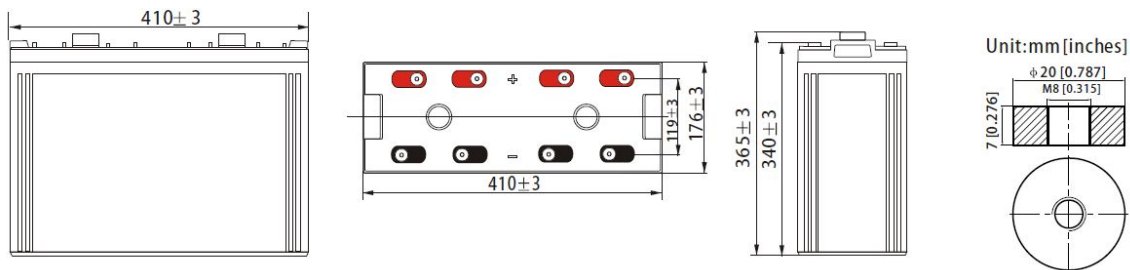
ISO 9001:2008 Standard



ISO 14001:2004 Standard



### Dimensions: L410\*W176\*H340(TH365)mm



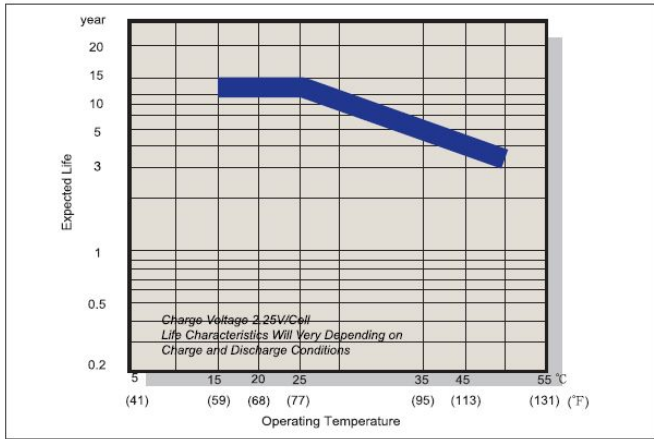
### stant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	24h
1.60	1040	800	512	312	230	146	106	81	42.6	37.0
1.65	967	744	476	311	229	145	105	81	42.5	37.0
1.70	998	768	492	310	228	145	105	80	42.3	36.7
1.75	967	744	476	308	226	144	104	80	42.1	36.6
1.80	948	730	467	302	222	141	102	80	42.0	36.5

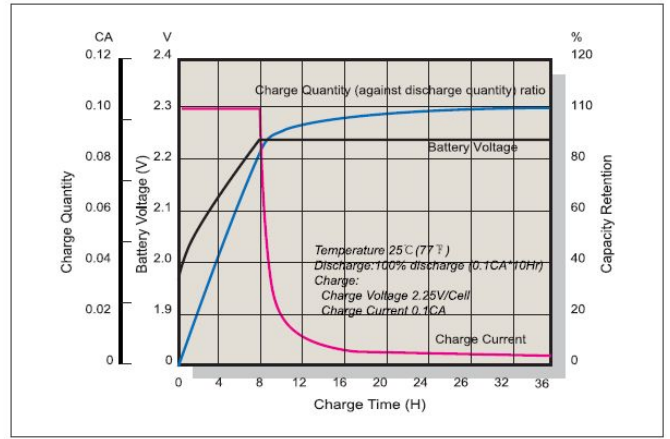
### Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	24h
1.60	1872	1480	980	574	454	291	211	162	85	74.1
1.65	1741	1376	912	572	452	289	210	162	85	73.9
1.70	1797	1421	941	570	449	288	209	161	85	73.4
1.75	1741	1376	912	567	447	287	207	160	84	73.2
1.80	1707	1350	894	555	438	281	203	160	84	73.0

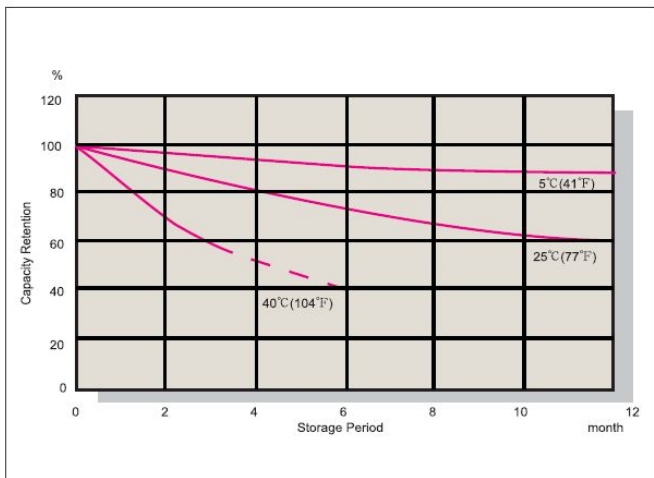
### Expected Life V.S Operating Temperature



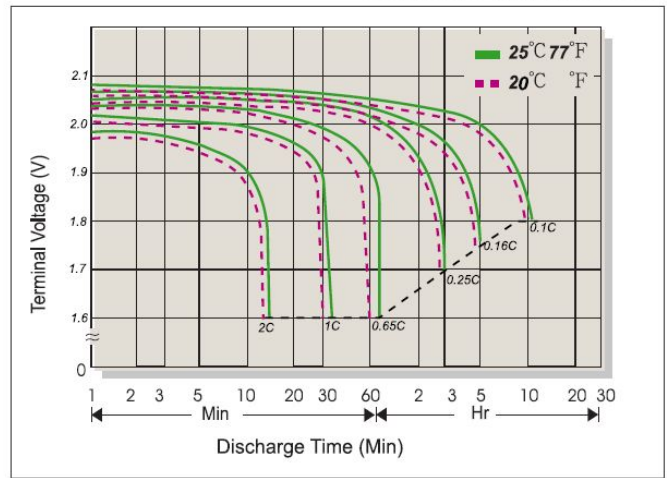
### Typical Constant Voltage Charge Characteristics



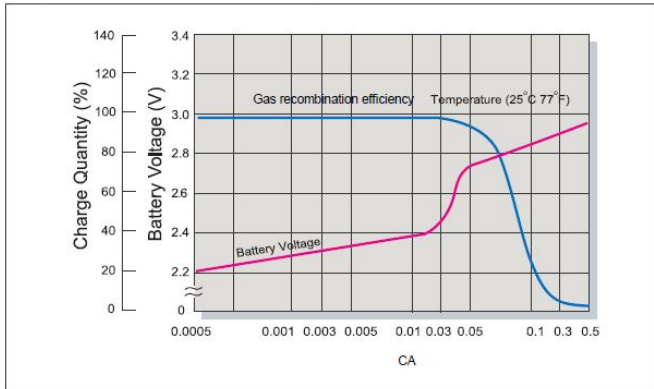
### Capacity Retention Characteristics



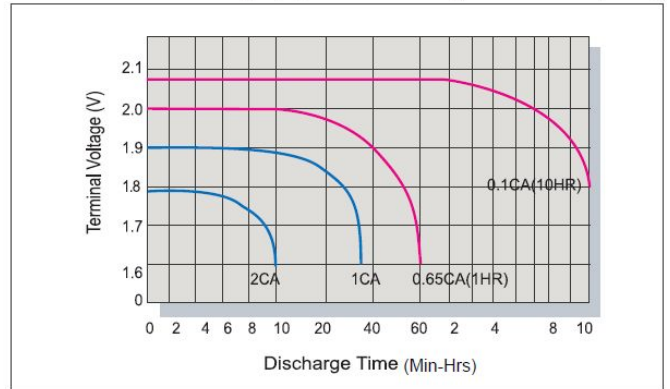
### Discharge Characteristics



### 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
	<0.2C	<0.4C		

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