



FM800G (2V800Ah)

LONGWAY® FM800G 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



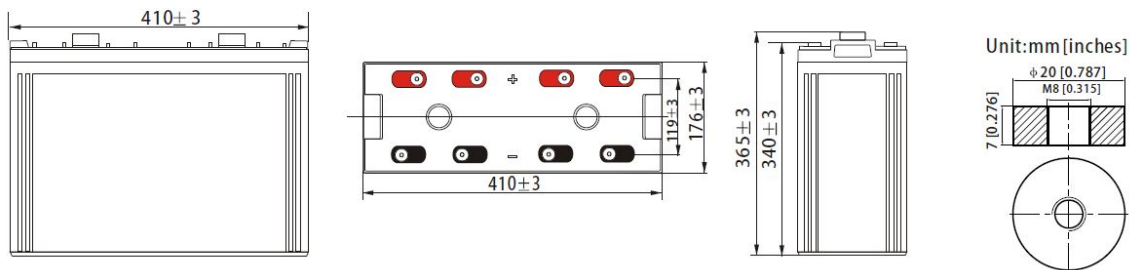
ISO 14001:2004 Standard



Specifications:

Cells per Unit	1
Normal Voltage	2V
Capacity	800Ah@10Hr-rate to 1.80V per cell@25°C
Weight	Approx. (51.0±3%kg)(112.44lbs)
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

Dimensions: L410*W176*H340(TH365)mm



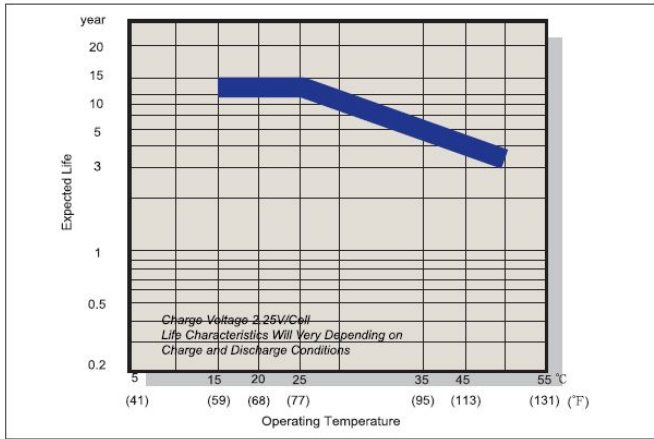
stant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	24h
1.60	1084	844	524	317	234	150	110	81.2	42.6	37.0
1.65	1008	785	487	315	233	149	109	81.0	42.5	37.0
1.70	1041	810	503	314	232	149	109	80.5	42.3	36.7
1.75	1008	785	487	312	230	148	108	80.2	42.1	36.6
1.80	989	770	478	306	226	145	106	80.0	42.0	36.5

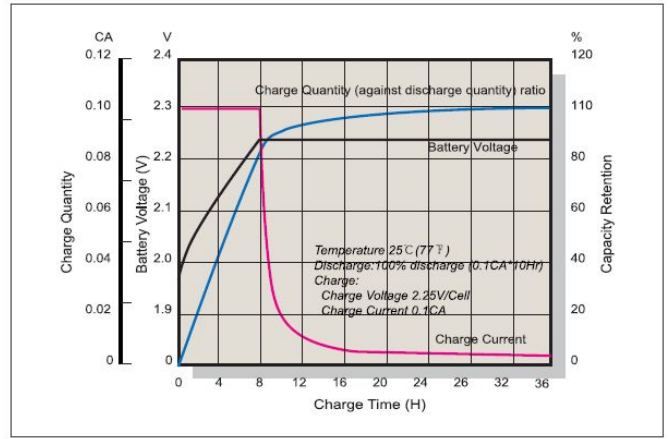
Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	24h
1.60	1951	1561	1003	583	462	299	219	162	85.3	74.1
1.65	1815	1452	933	580	460	297	218	162	85.1	73.9
1.70	1873	1499	963	577	457	296	217	161	84.5	73.4
1.75	1815	1452	933	574	455	295	215	160	84.3	73.2
1.80	1779	1424	915	563	446	289	211	160	84.0	73.0

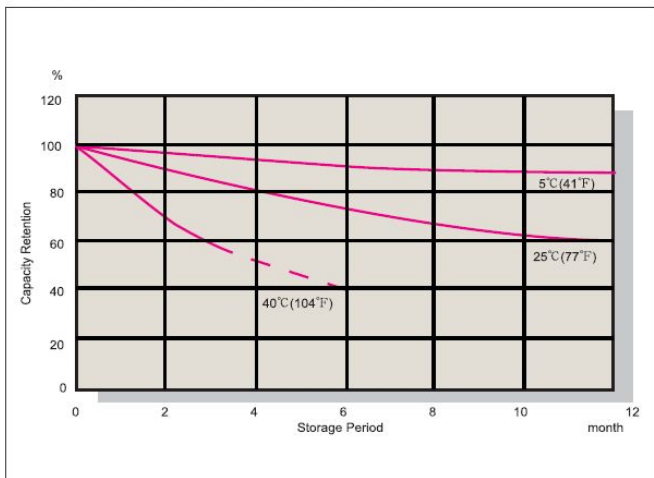
Expected Life V.S Operating Temperature



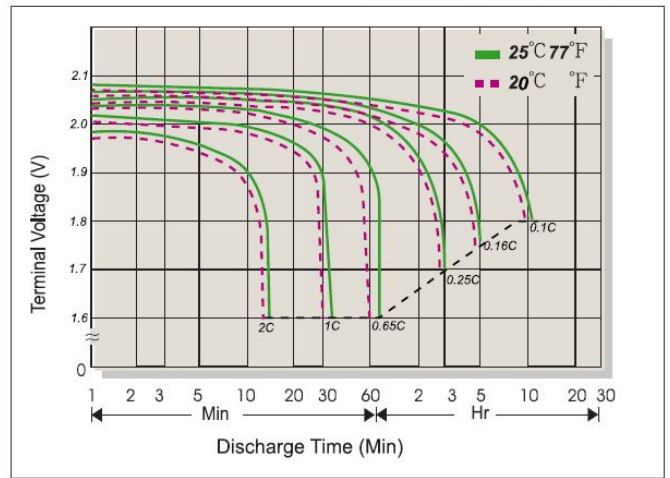
Typical Constant Voltage Charge Characteristics



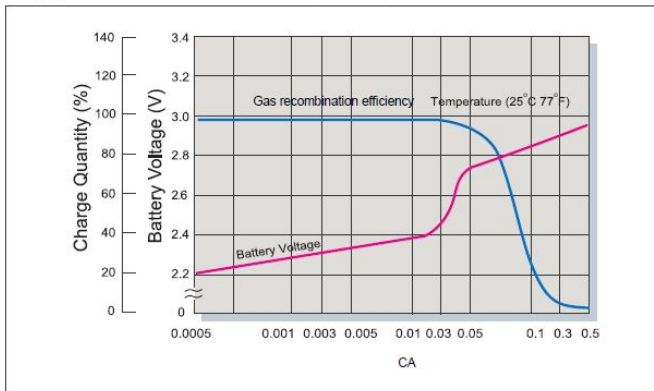
Capacity Retention Characteristics



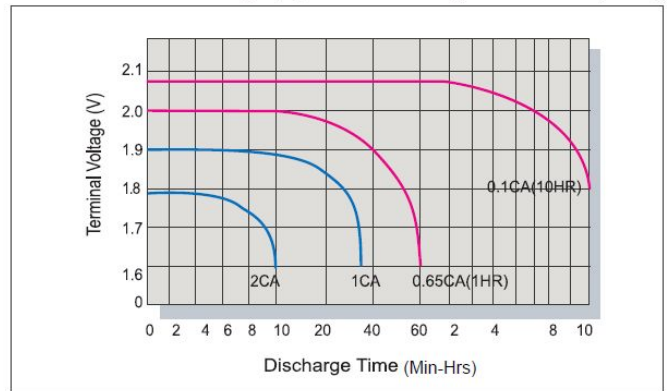
Discharge Characteristics



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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