

## FM2500G (2V2500Ah)



**LONGWAY® FM2500G** 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



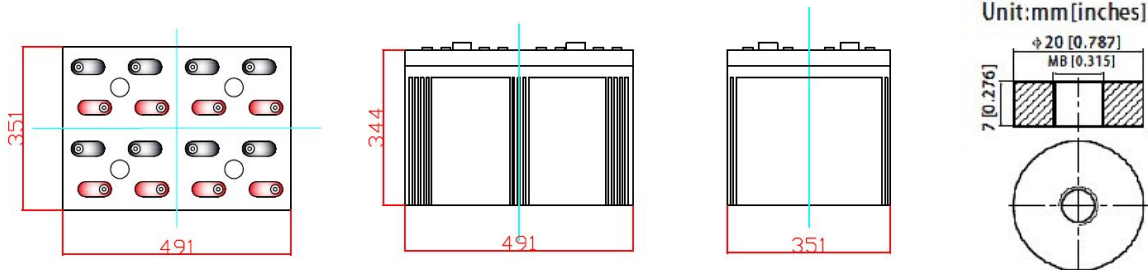
ISO 14001:2004 Standard



### Specifications:

Cells per Unit	1
Normal Voltage	2V
Capacity	2500Ah@10Hr-rate to 1.80V per cell@25°C
Weight	Approx.(118.0±3%kg)(260.15lbs)
Maximum Discharge Current	12500A(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	500A
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



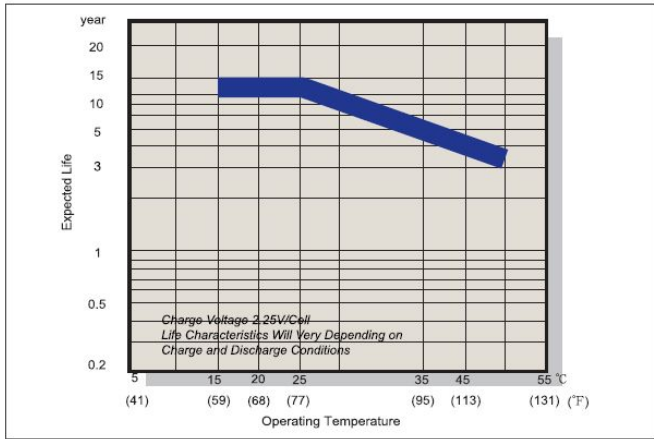
### stant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
1.60V	4125	3375	2250	1625	913.5	647.1	461.8	304.5	253.8	133.2
1.70V	3919	3240	2160	1560	900.0	637.5	455.0	301.8	251.5	132.0
1.80V	3684	3078	2052	1482	882.0	624.8	445.9	300.0	250.0	131.3

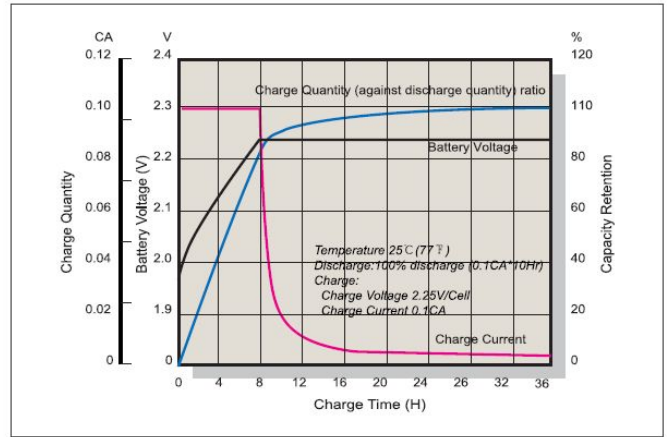
### Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
1.60V	7425	6176	4208	3088	1763	1268	909.8	609.0	505	266
1.70V	7054	5929	4039	2964	1737	1250	896.4	603.6	500	264
1.80V	6631	5633	3837	2816	1702	1225	878.4	600.0	500	263

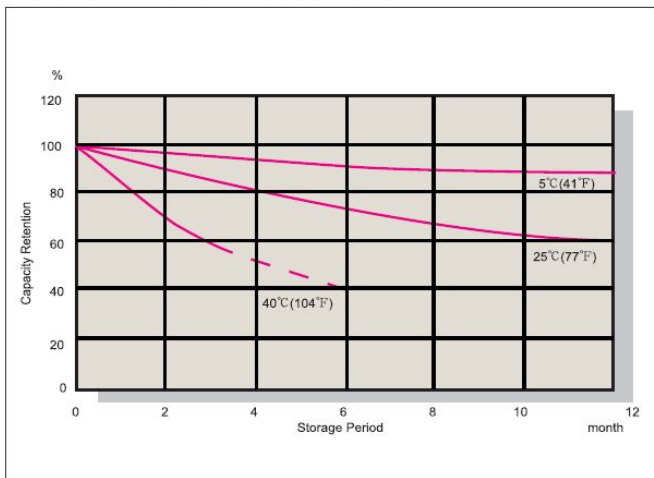
### Expected Life V.S Operating Temperature



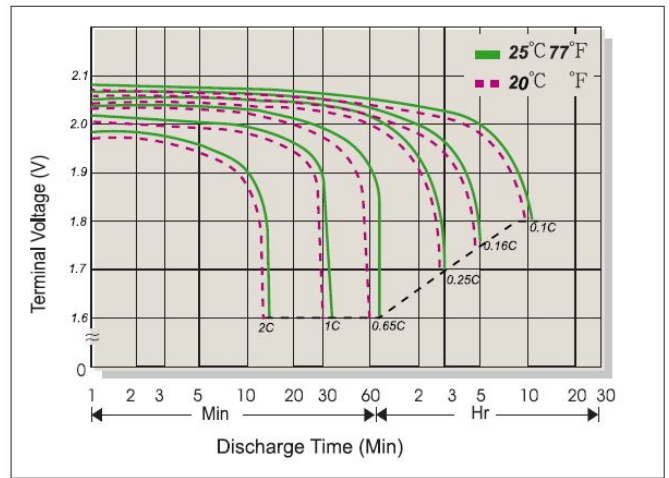
### Typical Constant Voltage Charge Characteristics



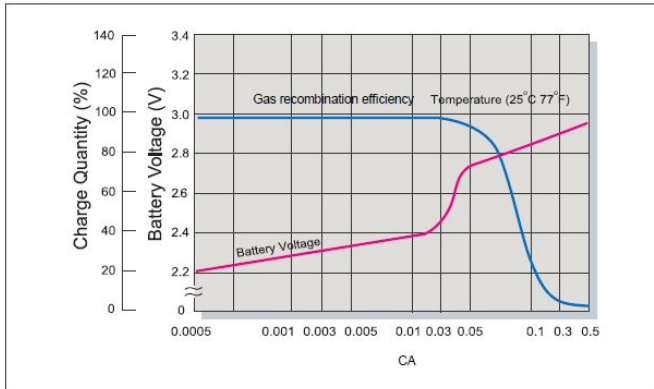
### Capacity Retention Characteristics



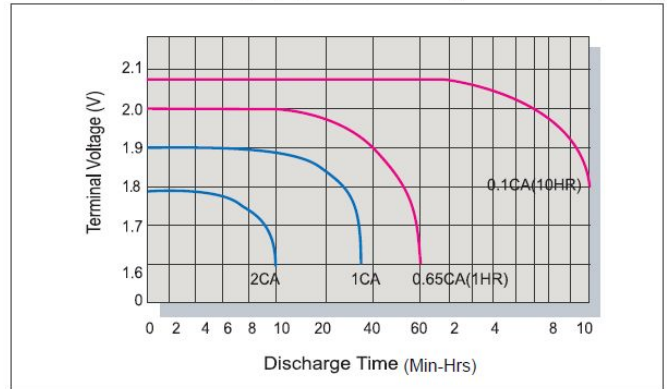
### Discharge Characteristics



### 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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