



## FM350G (2V350Ah)

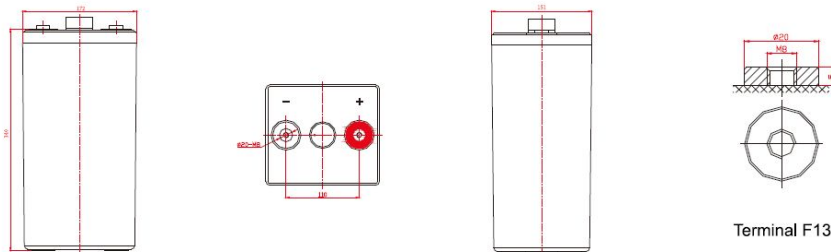
LONGWAY® FM350G is a long service life battery up to 15 years expected life under normal float charge. As with all LONGWAY® batteries, all are rechargeable highly efficient, leak proof and maintenance free.



### Specifications:

Cells per Unit	1
Normal Voltage	2V
Capacity	350Ah@10Hr-rate to 1.80V per cell@25°C
Weight	Approx. (19.0±3%kg)(41.89lbs)
Maximum Discharge Current	1750(5sec)
Internal Resistance	Approx. 0.65mΩ 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	70A
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:** L172\*W151\*H340(TH365)mm



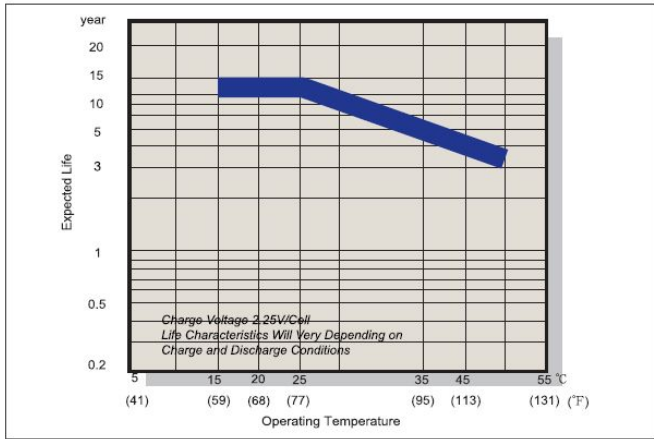
### Constant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	24h
1.60	474	369	229	139	102	66	48	35.5	18.7	16.2
1.65	441	343	213	138	102	65	48	35.5	18.6	16.2
1.70	455	354	220	137	101	65	47	35.2	18.5	16.1
1.75	441	343	213	137	101	65	47	35.1	18.4	16.0
1.80	433	337	209	134	99	63	46	35.0	18.4	16.0

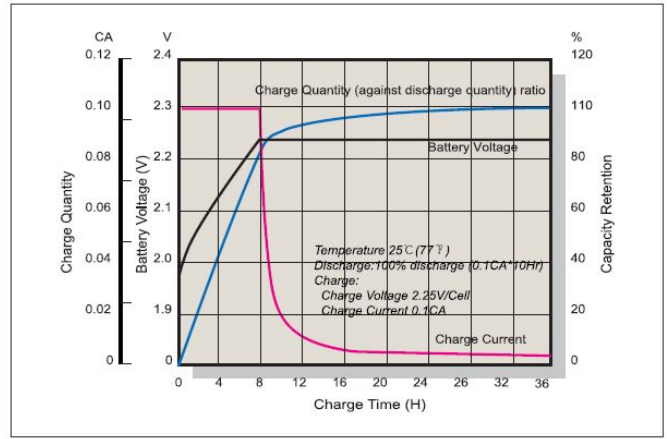
### Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	24h
1.60	854	683	439	255	202	131	96	71	37.3	32.4
1.65	794	635	408	254	201	130	95	71	37.2	32.3
1.70	820	656	421	252	200	129	95	70	37.0	32.1
1.75	794	635	408	251	199	129	94	70	36.9	32.0
1.80	779	623	400	246	195	126	92	70	36.8	31.9

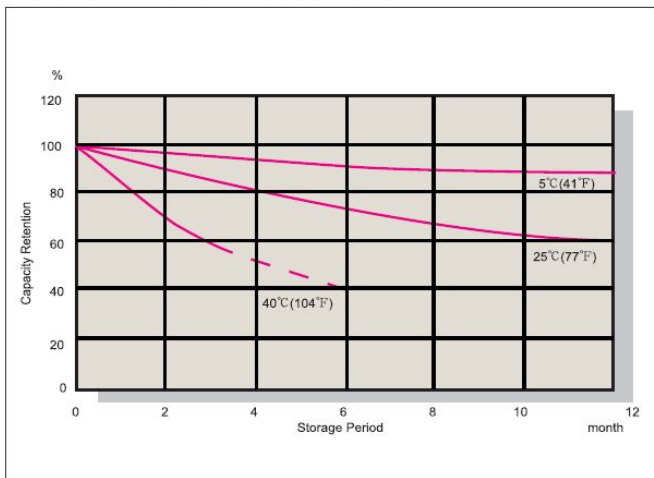
### Expected Life V.S Operating Temperature



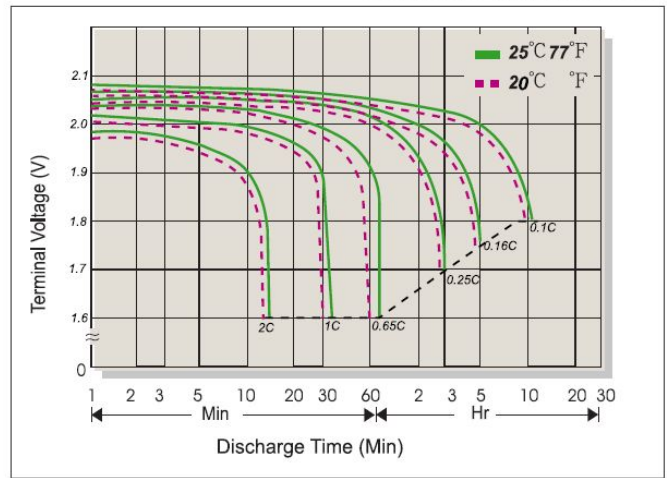
### Typical Constant Voltage Charge Characteristics



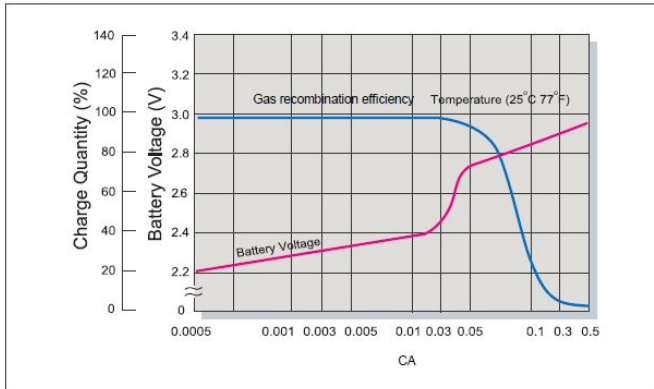
### Capacity Retention Characteristics



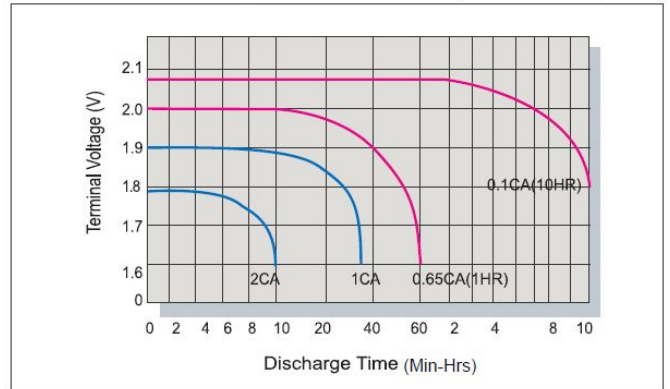
### Discharge Characteristics



### 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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