



## FM300G (2V300Ah)

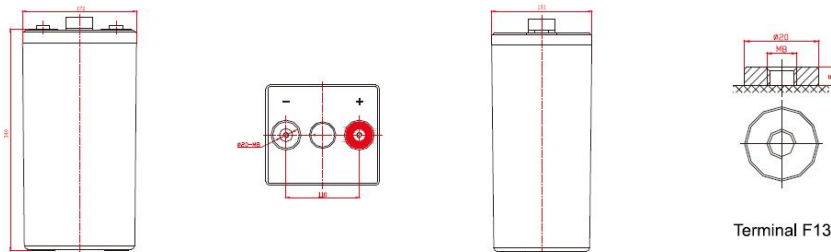
LONGWAY® FM300G is a long service life battery up to 15 years expected life under normal float charge. As with all LONGWAY® batteries, all are rechargeable highly efficient, leak proof and maintenance free.



### Specifications:

Cells per Unit	1
Normal Voltage	2V
Capacity	300Ah@10Hr-rate to 1.80V per cell@25°C
Weight	Approx. (18.50±3%kg)(40.79lbs)
Maximum Discharge Current	1500A(5sec)
Internal Resistance	Approx. 0.72mΩ 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	60A
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



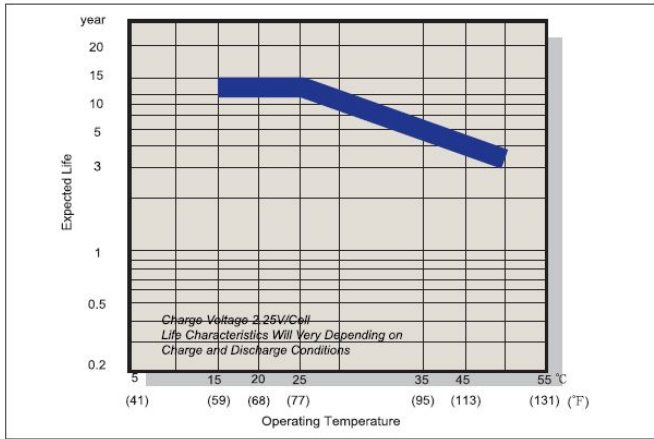
### Constant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	24h
1.60	407	317	197	119	87.7	56.3	41.1	30.5	16.0	13.9
1.65	378	294	183	118	87.3	56.1	40.9	30.4	16.0	13.9
1.70	390	304	189	118	86.8	55.8	40.7	30.2	15.8	13.8
1.75	378	294	183	117	86.4	55.5	40.5	30.1	15.8	13.7
1.80	371	289	179	115	84.7	54.4	39.7	30.0	15.8	13.7

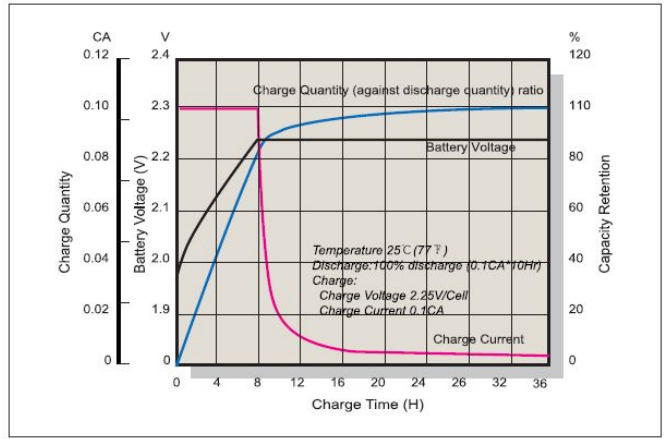
### Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	24h
1.60	732	586	376	219	173	112	82.0	60.9	32.0	27.8
1.65	680	545	350	217	172	112	81.6	60.8	31.9	27.7
1.70	702	562	361	216	171	111	81.2	60.4	31.7	27.5
1.75	680	545	350	215	171	110	80.8	60.2	31.6	27.4
1.80	667	534	343	211	167	108	79.2	60.0	31.5	27.4

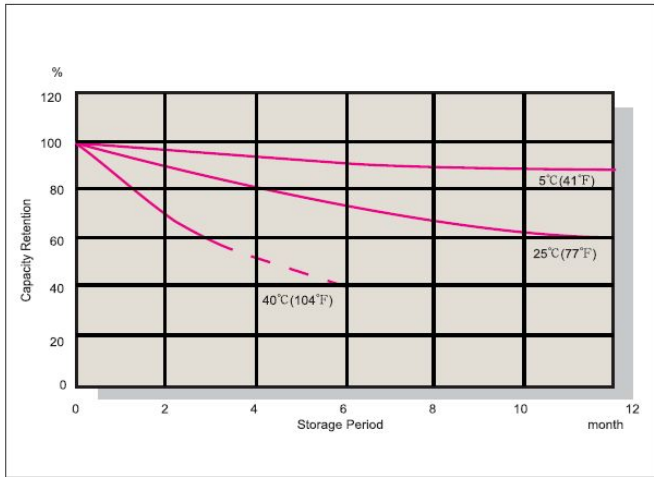
### Expected Life V.S Operating Temperature



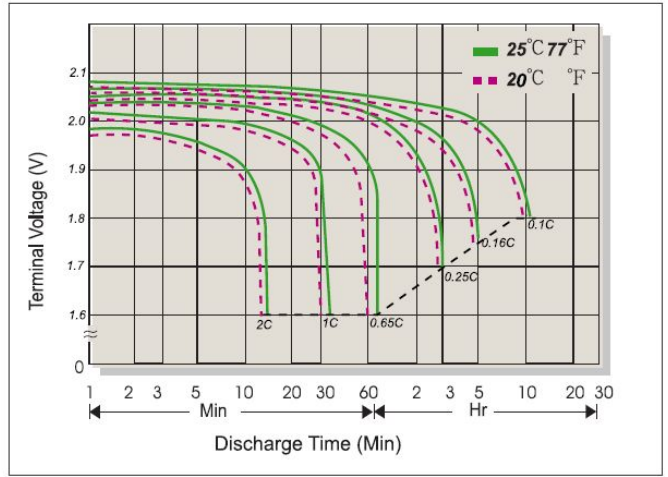
### Typical Constant Voltage Charge Characteristics



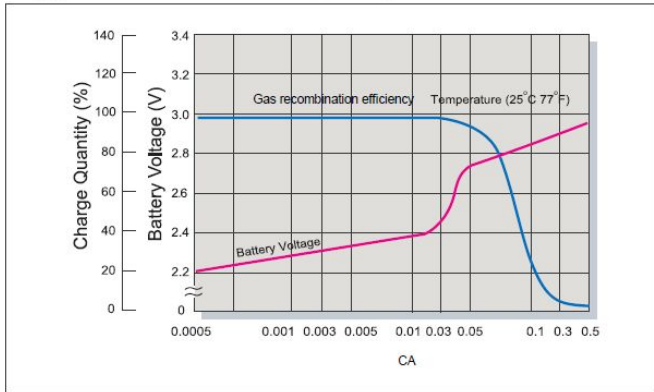
### Capacity Retention Characteristics



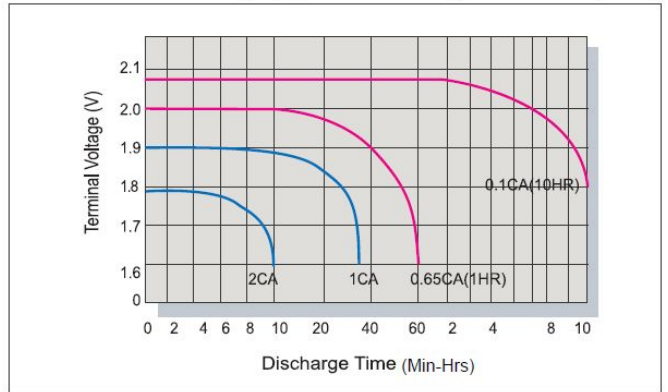
### Discharge Characteristics



### 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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