



## FM300G/E (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.



ISO 9001:2008 Standard



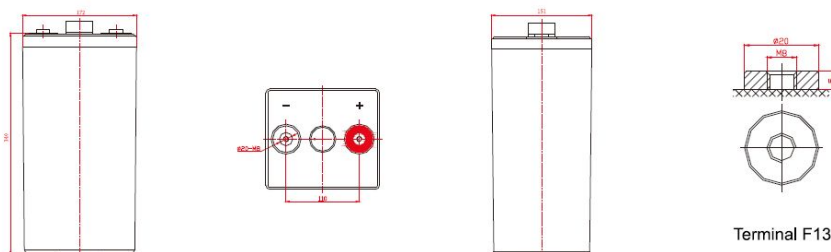
ISO 14001:2004 Standard



### Specifications:

Cells per Unit	1
Normal Voltage	2V
Capacity	300Ah@10Hr-rate to 1.80V per cell@25°C
Weight	Approx. (17.5±3%kg)(38.58lbs)
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



Terminal F13

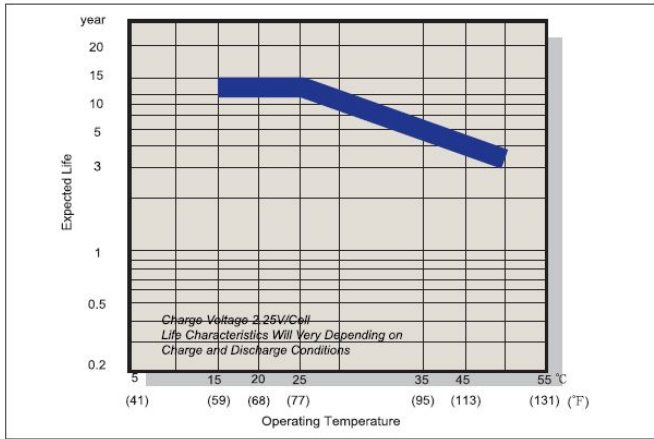
### Constant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	24h
1.60	390	300	192	117	86	55	40	30	16.0	13.9
1.65	363	279	179	117	86	55	39	30	16.0	13.9
1.70	374	288	184	116	85	54	39	30	15.8	13.8
1.75	363	279	179	116	85	54	39	30	15.8	13.7
1.80	356	274	175	113	83	53	38	30	15.8	13.7

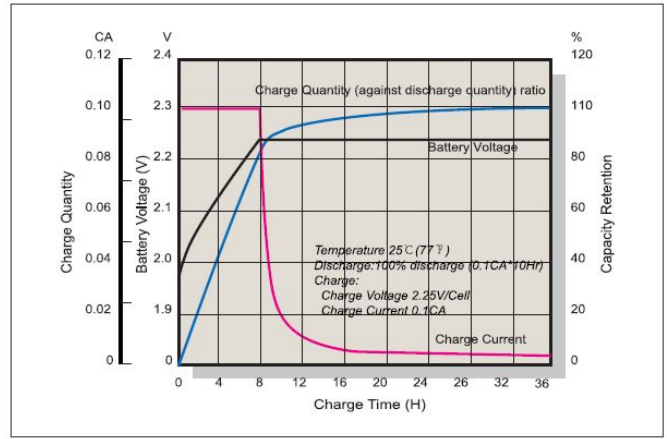
### Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	24h
1.60	702	555	368	215	170	109	79	61	32	27.8
1.65	653	516	342	215	169	109	79	61	32	27.7
1.70	674	533	353	214	169	108	78	60	32	27.5
1.75	653	516	342	213	168	107	78	60	32	27.4
1.80	640	506	335	208	164	105	76	60	32	27.4

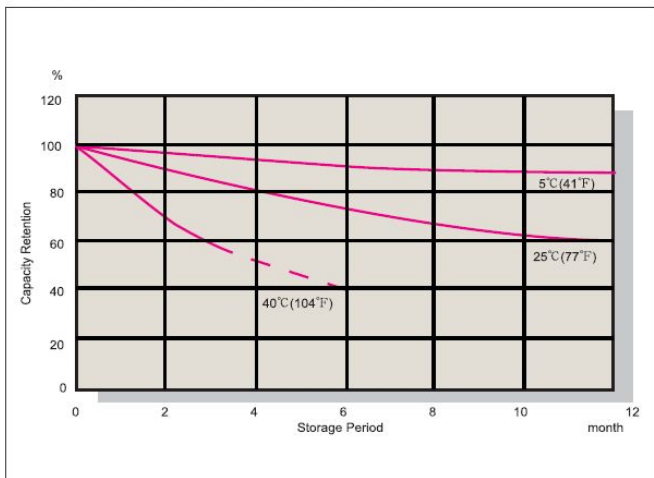
### Expected Life V.S Operating Temperature



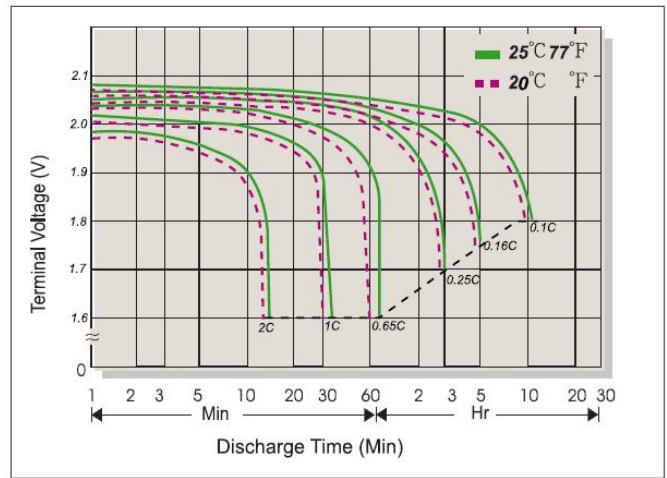
### Typical Constant Voltage Charge Characteristics



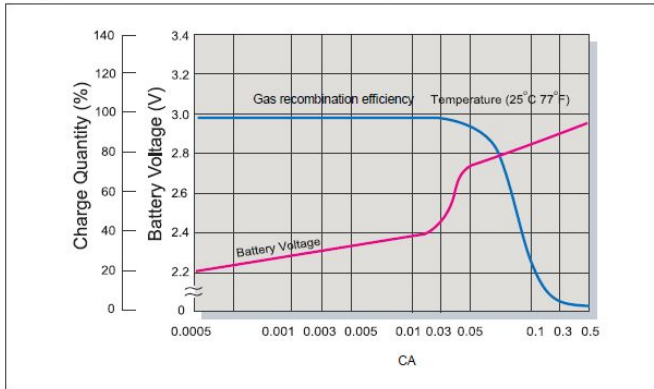
### Capacity Retention Characteristics



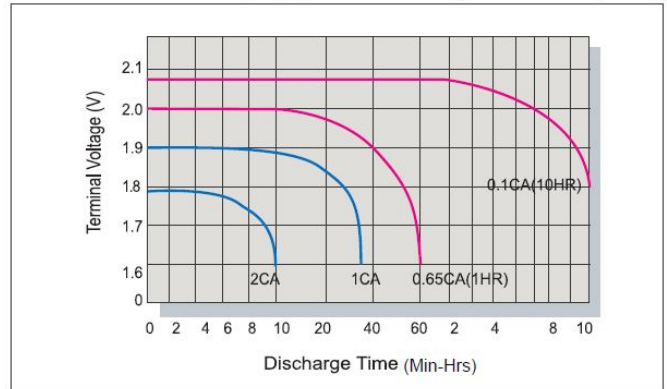
### Discharge Characteristics



### 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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