



FM600G/E (2V600Ah)

LONGWAY® FM600G/E 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	600Ah@10Hr-rate to 1.80V per cell@25°C
Weight	Approx. (35.5±3%kg)(78.26lbs)
Maximum Discharge Current	3000A(5sec)
Internal Resistance	Approx. 0.62mΩ 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	180A
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



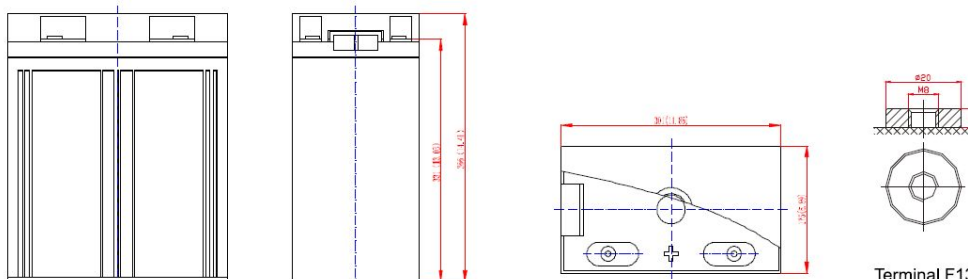
ISO 9001:2008 Standard



ISO 14001:2004 Standard



Dimensions: L302*W175*H340(TH365)mm



Terminal F13

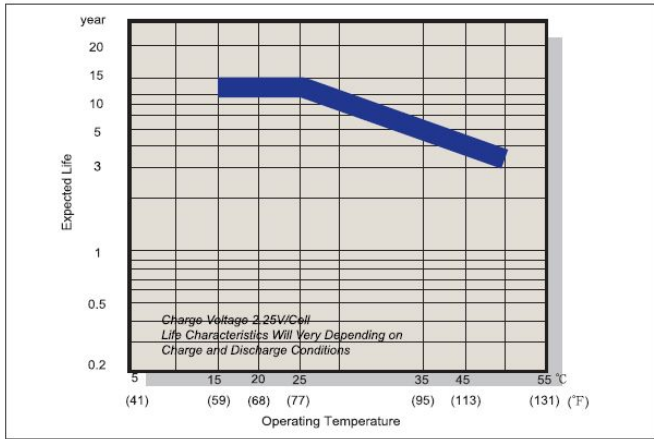
Constant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	24h
1.60	780	600	384	234	172	110	79	61	32.0	27.8
1.65	725	558	357	233	171	109	79	61	31.9	27.7
1.70	749	576	369	232	171	109	78	60	31.7	27.5
1.75	725	558	357	231	170	108	78	60	31.6	27.4
1.80	711	547	350	226	166	106	76	60	31.5	27.4

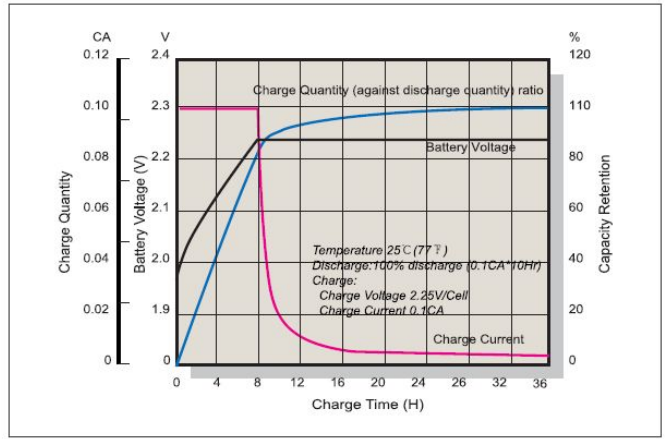
Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	24h
1.60	1404	1110	735	430	340	218	158	122	64	55.5
1.65	1306	1032	684	429	339	217	157	122	64	55.4
1.70	1348	1066	706	427	337	216	156	121	63	55.0
1.75	1306	1032	684	425	335	215	156	120	63	54.9
1.80	1280	1012	671	417	329	211	152	120	63	54.7

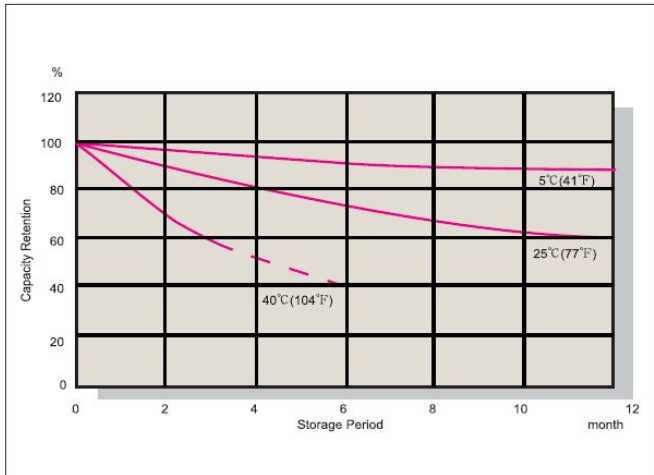
Expected Life V.S Operating Temperature



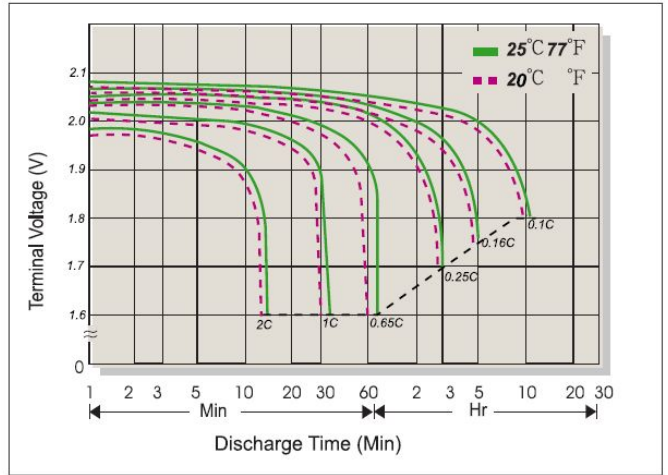
Typical Constant Voltage Charge Characteristics



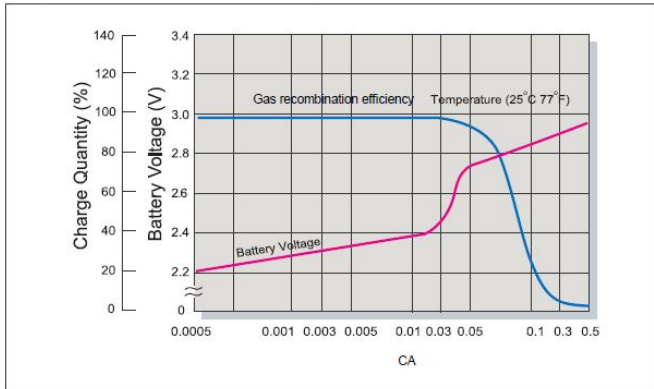
Capacity Retention Characteristics



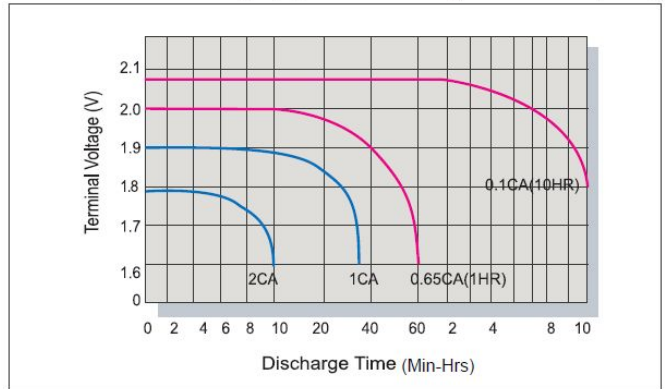
Discharge Characteristics



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	0.2C<(A) <0.4C	(A)>0.4C

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