



FM400G (2V400Ah)

LONGWAY® FM400G 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



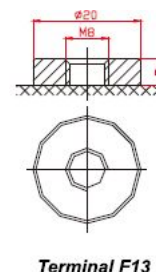
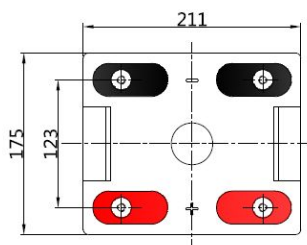
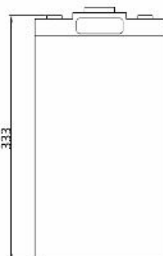
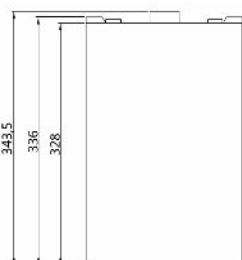
ISO 14001:2004 Standard



Specifications:

Cells per Unit	1
Normal Voltage	2V
Capacity	400Ah@10Hr-rate to 1.80V per cell@25°C
Weight	Approx. (25.5±3%kg)(56.22lbs)
Maximum Discharge Current	2000A(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	80A
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: L211*W175*H336(TH365)mm



Terminal F13

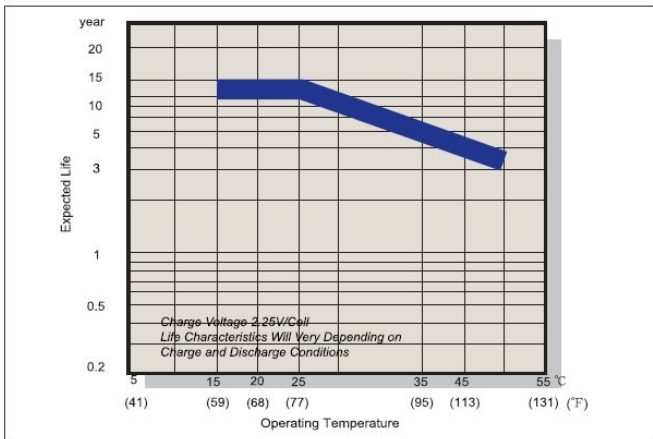
stant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	24h
1.60	542	422	262	158	116.9	75.1	54.8	40.6	21.3	18.5
1.65	504	392	244	158	116.4	74.7	54.5	40.5	21.3	18.5
1.70	520	405	252	157	115.8	74.4	54.3	40.2	21.1	18.3
1.75	504	392	244	156	115.2	74.0	54.0	40.1	21.1	18.3
1.80	494	385	239	153	112.9	72.5	52.9	40.0	21.0	18.2

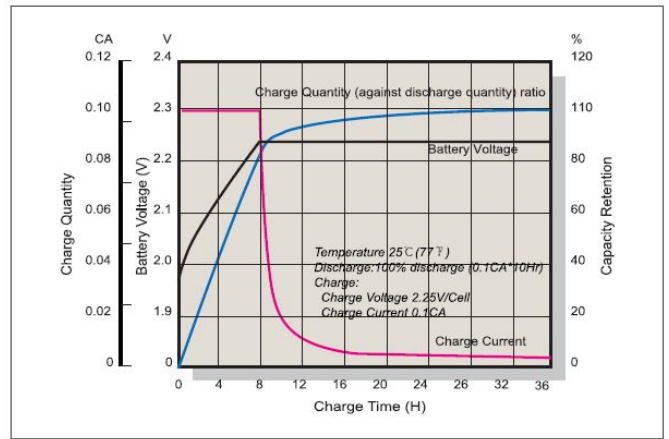
Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	24h
1.60	976	781	502	291	231	149	109.3	81.2	42.6	37.0
1.65	907	726	467	290	230	149	108.8	81.0	42.5	37.0
1.70	937	749	482	288	229	148	108.3	80.5	42.3	36.7
1.75	907	726	467	287	228	147	107.7	80.2	42.1	36.6
1.80	890	712	458	281	223	144	105.6	80.0	42.0	36.5

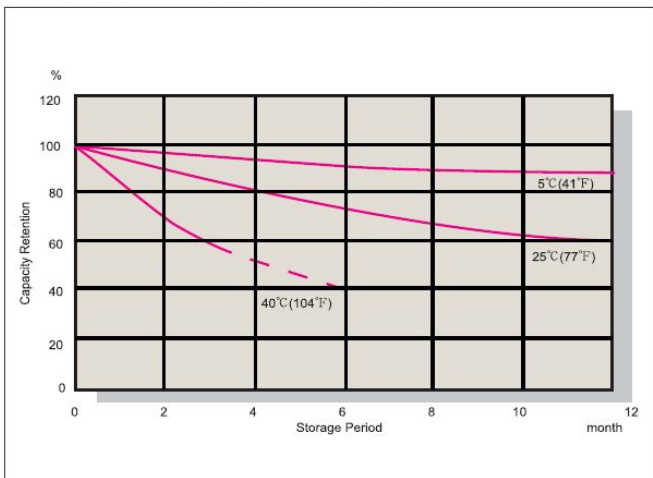
Expected Life V.S Operating Temperature



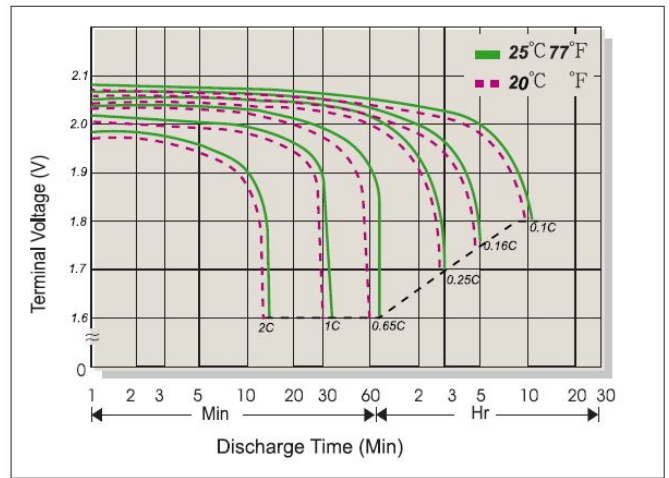
Typical Constant Voltage Charge Characteristics



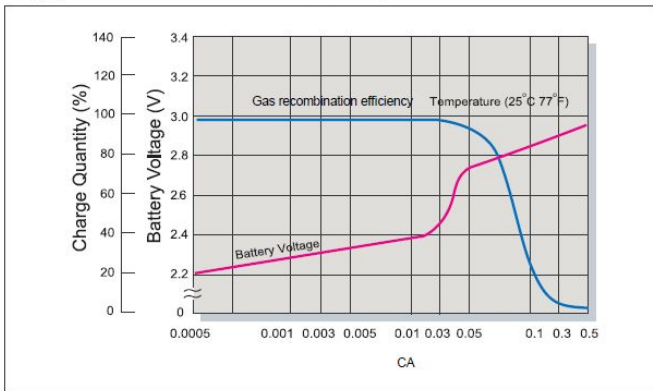
Capacity Retention Characteristics



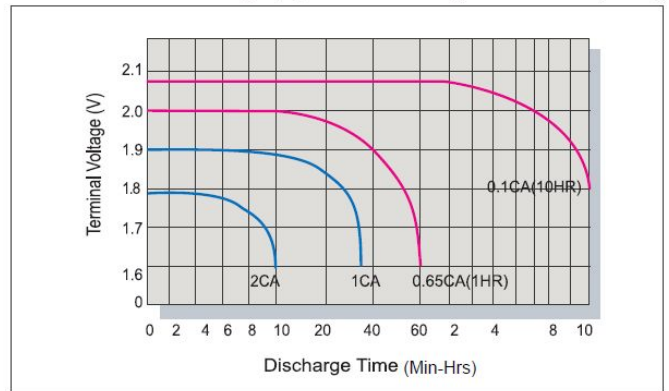
Discharge Characteristics



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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