



FM400G/E (2V400Ah)

LONGWAY® FM400G/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.



ISO 9001:2008 Standard



ISO 14001:2004 Standard



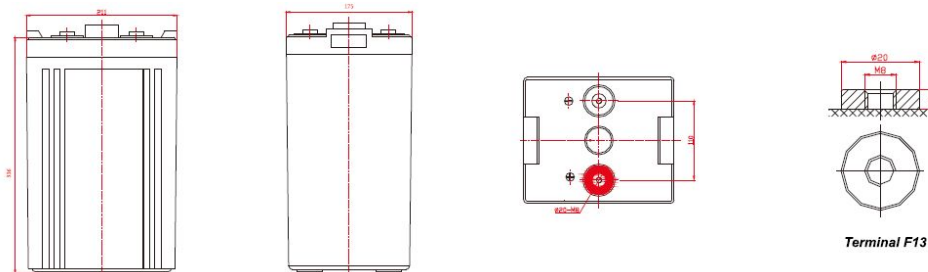
MH46789



Specifications:

Cells per Unit	1
Normal Voltage	2V
Capacity	400Ah@10Hr-rate to 1.80V per cell@25°C
Weight	Approx. (25.0±3%kg)(55.12lbs)
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*W151*H336(TH365)mm



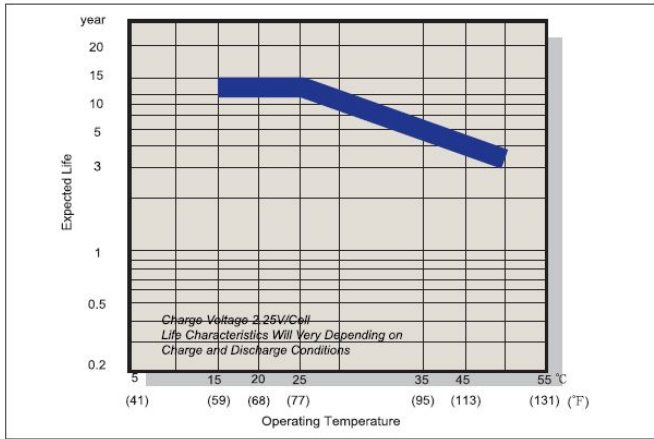
stant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	24h
1.60	520	400	256	156	115	73	53	41	21.3	18.5
1.65	484	372	238	156	114	73	53	41	21.3	18.5
1.70	499	384	246	155	114	72	52	40	21.1	18.3
1.75	484	372	238	154	113	72	52	40	21.1	18.3
1.80	474	365	233	151	111	71	51	40	21.0	18.2

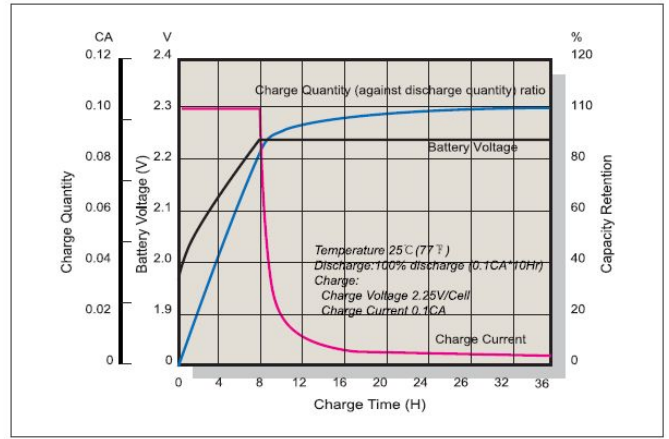
Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	24h
1.60	936	740	490	287	227	145	105	81	43	37.0
1.65	870	688	456	286	226	145	105	81	43	37.0
1.70	899	710	471	285	225	144	104	80	42	36.7
1.75	870	688	456	283	224	143	104	80	42	36.6
1.80	854	675	447	278	219	140	102	80	42	36.5

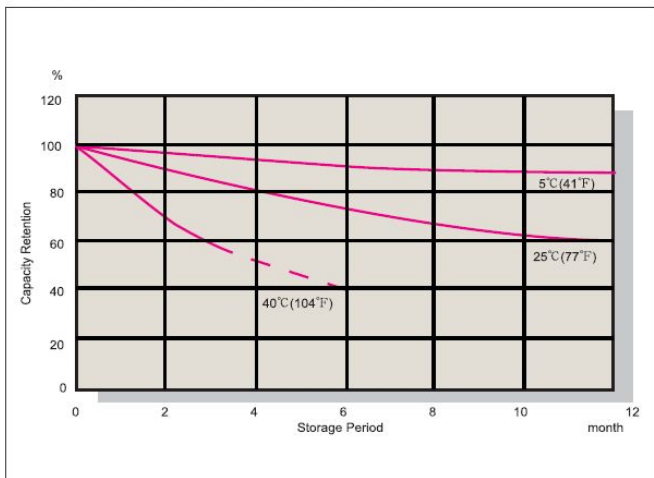
Expected Life V.S Operating Temperature



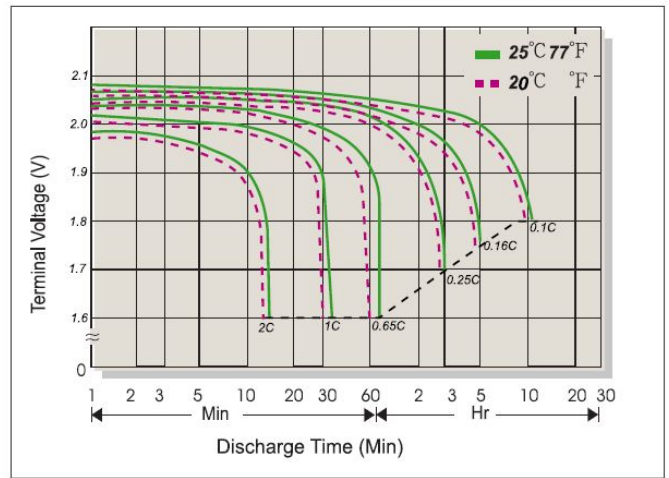
Typical Constant Voltage Charge Characteristics



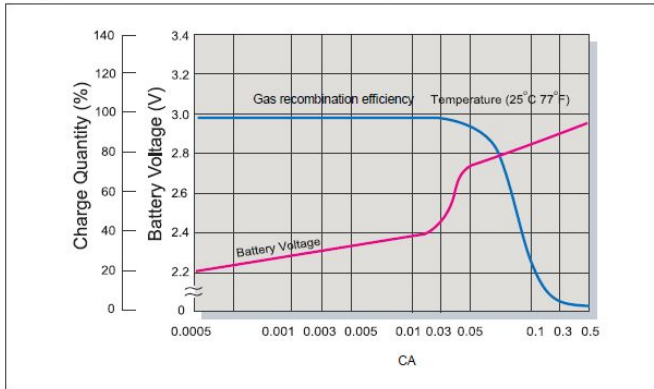
Capacity Retention Characteristics



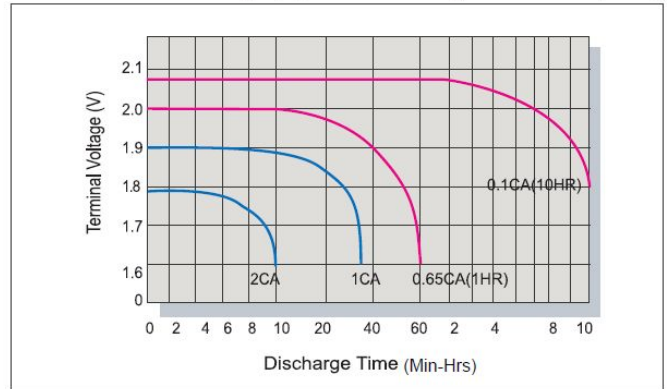
Discharge Characteristics



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

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