



FM200G/E (2V200Ah)

LONGWAY® FM200G/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



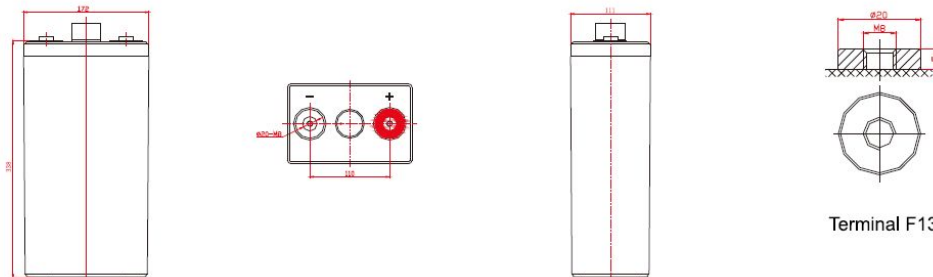
ISO 14001:2004 Standard



Specifications:

Cells per Unit	1
Normal Voltage	2V
Capacity	200Ah@10Hr-rate to 1.80V per cell@25°C
Weight	Approx. (12.0±3%kg)(26.46lbs)
Maximum Discharge Current	1000A(5sec)
Internal Resistance	Approx. 0.8mΩ 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	40A
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*W111*H338(TH365)mm



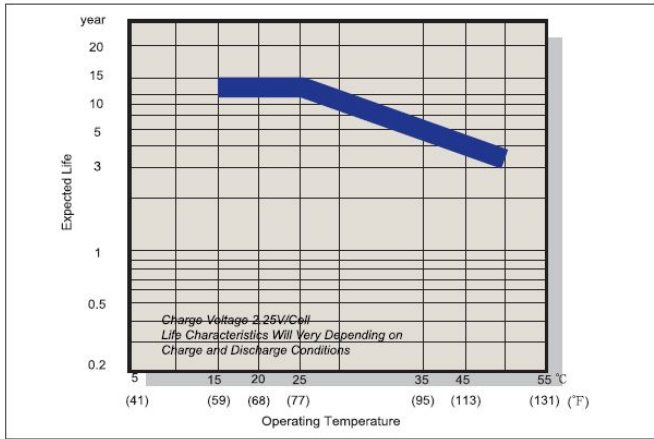
Constant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	24h
1.60	260	200	128	78	57	37	26	20	10.7	9.3
1.65	242	186	119	78	57	36	26	20	10.6	9.2
1.70	250	192	123	77	57	36	26	20	10.6	9.2
1.75	242	186	119	77	57	36	26	20	10.5	9.1
1.80	237	182	117	75	55	35	25	20	10.5	9.1

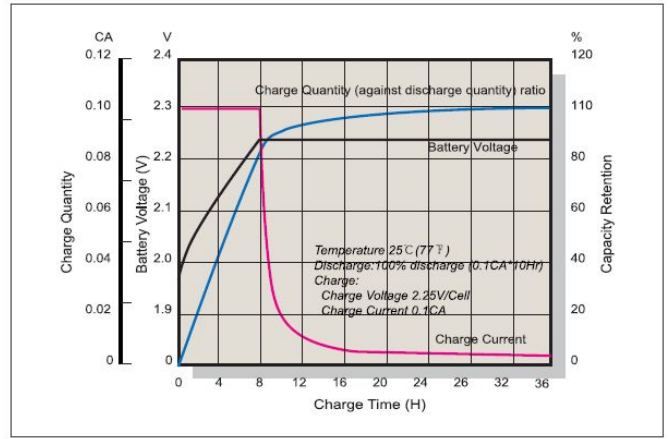
Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	24h
1.60	468	370	245	143	113	73	53	41	21	18.5
1.65	435	344	228	143	113	72	52	41	21	18.5
1.70	449	355	235	142	112	72	52	40	21	18.3
1.75	435	344	228	142	112	72	52	40	21	18.3
1.80	427	337	224	139	110	70	51	40	21	18.2

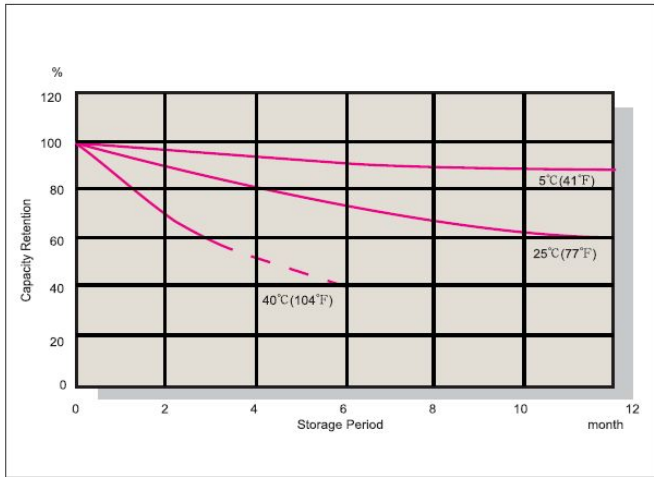
Expected Life V.S Operating Temperature



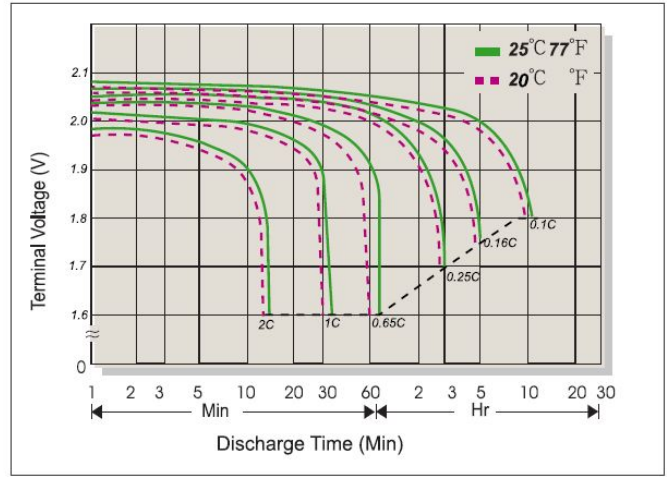
Typical Constant Voltage Charge Characteristics



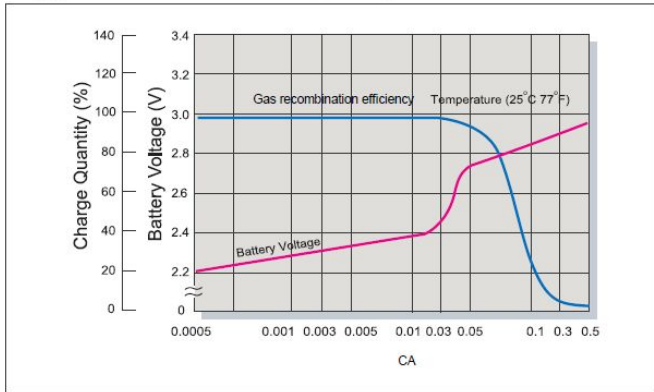
Capacity Retention Characteristics



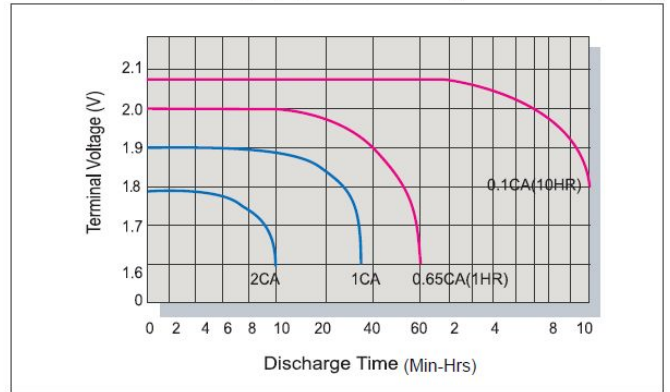
Discharge Characteristics



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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