



FM1500G (2V1500Ah)

LONGWAY® FM1500G 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



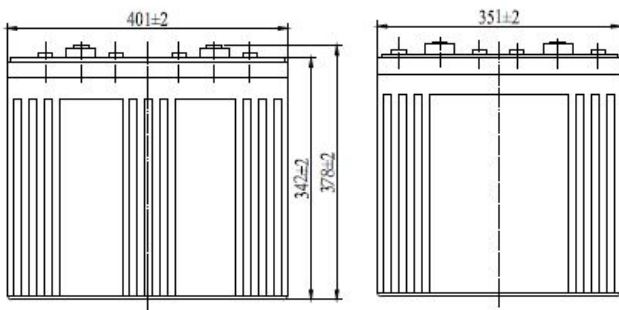
ISO 14001:2004 Standard



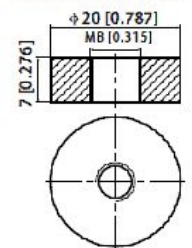
Specifications:

Cells per Unit	1
Normal Voltage	2V
Capacity	1500Ah@10Hr-rate to 1.80V per cell@25°C
Weight	Approx.(88.0±3%kg)(194.01lbs)
Maximum Discharge Current	7500A(5sec)
Internal Resistance	Approx. 0.15mΩ 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	300A
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: L401*W351*H342(TH378)mm



Unit:mm[inches]



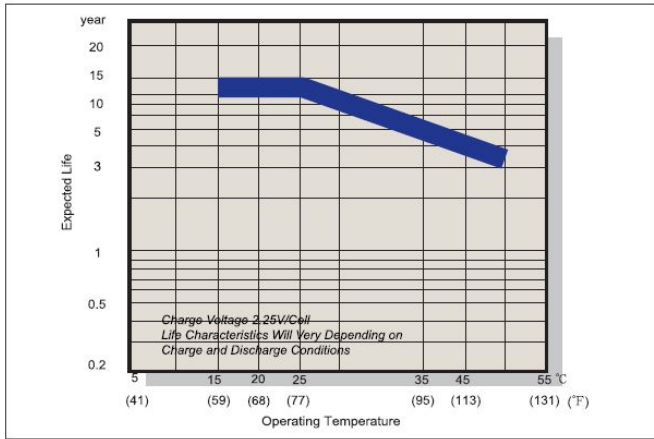
stant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	24h
1.60	2033	1583	982.5	593.8	438.5	281.7	205.5	152.3	79.93	69.43
1.65	1890	1472	913.7	590.9	436.3	280.3	204.5	152.0	79.78	69.29
1.70	1951	1519	943.2	587.9	434.2	278.9	203.5	150.9	79.22	68.81
1.75	1890	1472	913.7	585.0	432.0	277.5	202.5	150.5	78.99	68.61
1.80	1854	1443	896.0	573.3	423.4	272.0	198.5	150.0	78.75	68.40

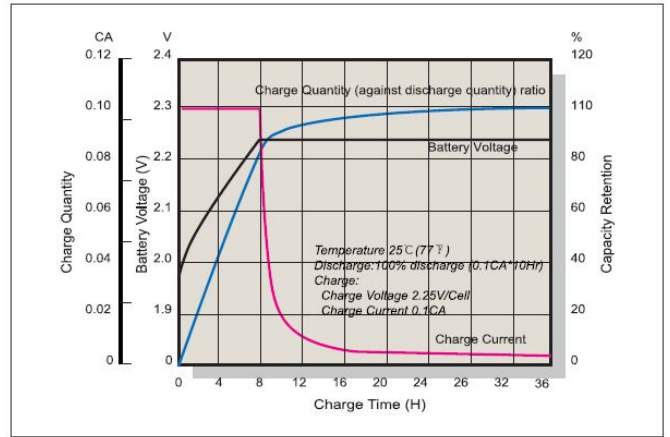
Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	24h
1.60	3659	2928	1881	1093	866.0	560.5	410.0	304.5	159.9	138.9
1.65	3402	2723	1750	1087	861.7	557.7	408.0	303.9	159.6	138.6
1.70	3512	2811	1806	1082	857.5	555.0	406.0	301.8	158.4	137.6
1.75	3402	2723	1750	1076	853.2	552.2	404.0	300.9	158.0	137.2
1.80	3337	2670	1716	1055	836.1	541.2	395.9	300.0	157.5	136.8

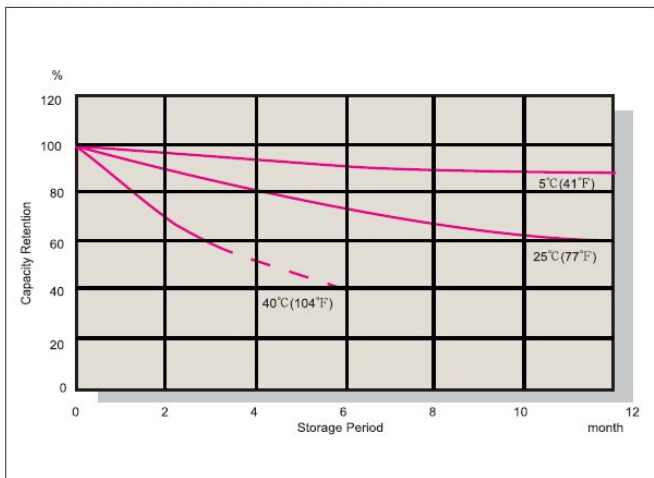
Expected Life V.S Operating Temperature



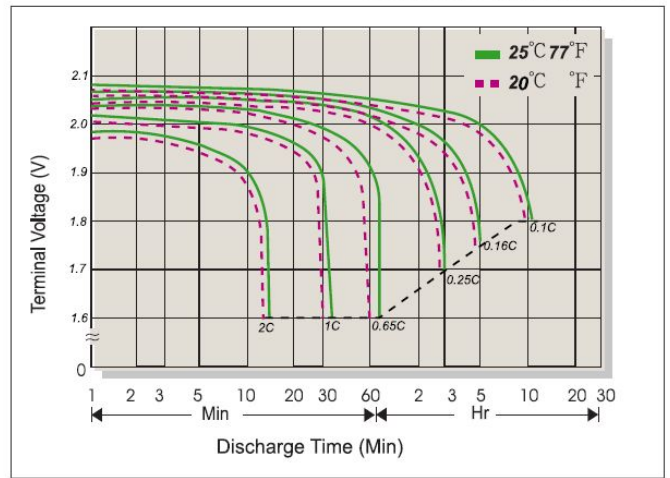
Typical Constant Voltage Charge Characteristics



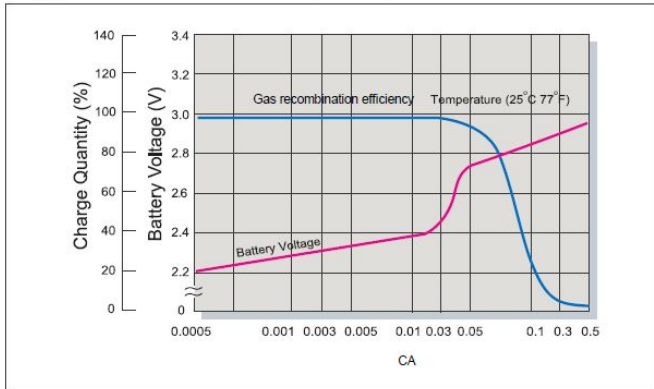
Capacity Retention Characteristics



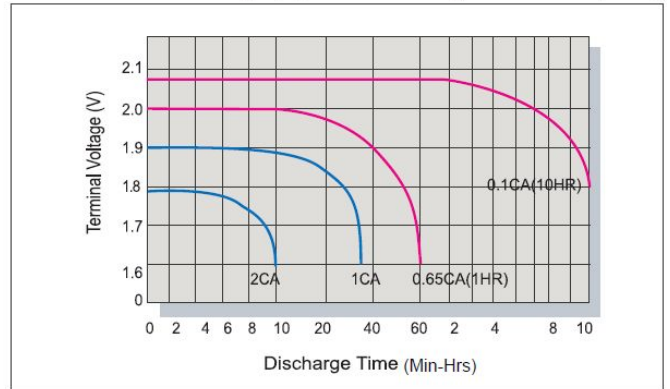
Discharge Characteristics



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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