



6FM250G (12V250Ah)

LONGWAY® Standard battery is design for a general purpose by KaiYing Power. 6FM250 is a general purpose battery up to 8 years in star service or more than 260 cycles at 100% discharge in cycle service. As with all **LONGWAY®** batteries, all are rechargeable highly efficient, leak proof and maintenance free.



ISO 9001:2008 Standard



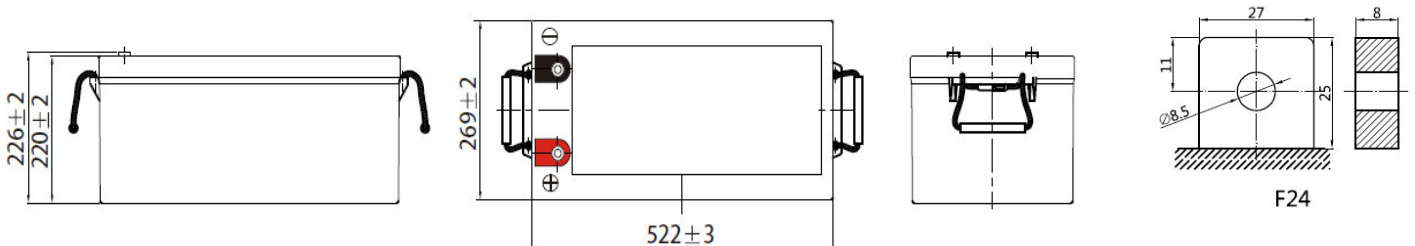
ISO 14001:2004 Standard



Specifications:

Cells per Unit	6
Normal Voltage	12V
Capacity	250Ah@10Hr-rate to 1.80V per cell@25°C
Weight	Approx.(70±3% kg) (154.32lbs)
Maximum Discharge Current	2500A(5sec)
Internal Resistance	Approx. 2.8mΩ 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	13.7~13.9VDC/unit Average @25°C
Maximum Charging Current	62.5A
Equalization and Cycle Service	14.4V~15.0VDC/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	Terminal F24
Container Material	ABS(UL94-HB) *Flammability resistance of (UL94-V0) can be available upon request

Dimensions: L520*W269*H220(TH245)



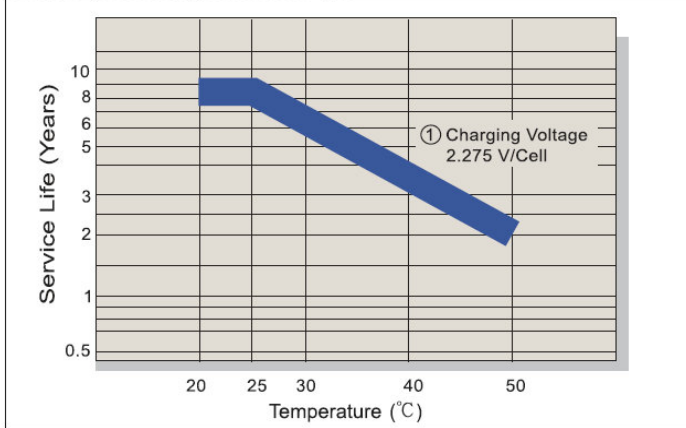
Constant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	745.0	615.0	483.0	293.8	162.5	97.7	73.6	47.2	30.45	25.38	13.32
9.90	722.7	596.6	473.3	287.9	159.3	97.2	73.2	47.0	30.30	25.25	13.26
10.2	707.8	584.3	463.7	282.0	156.0	96.3	72.5	46.5	30.18	25.15	13.20
10.5	666.8	565.8	449.2	273.2	151.1	95.3	71.8	46.0	30.09	25.08	13.16
10.8	610.9	549.2	440.5	267.9	148.2	94.3	71.1	45.6	30.00	25.00	13.13

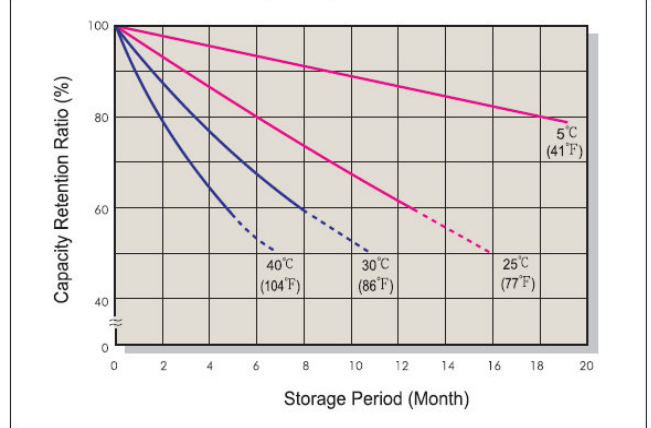
Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	8046	6716	5361	3296	1853	1131	865	558	365.4	303.0	159.9
9.90	7805	6514	5197	3230	1815	1126	861	555	363.6	301.5	159.1
10.2	7644	6380	5091	3164	1778	1115	853	550	362.2	300.3	158.4
10.5	7201	6179	4932	3065	1723	1103	844	544	361.1	299.4	158.0
10.8	6598	5997	4837	3006	1689	1092	836	539	360.0	298.5	157.5

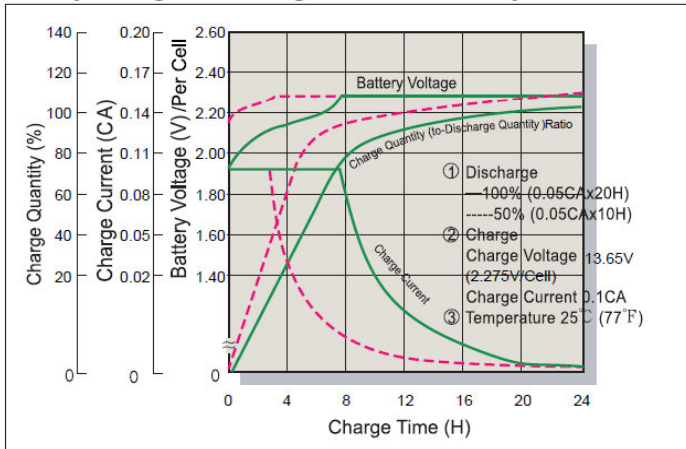
Trickle (or Float) Service Life



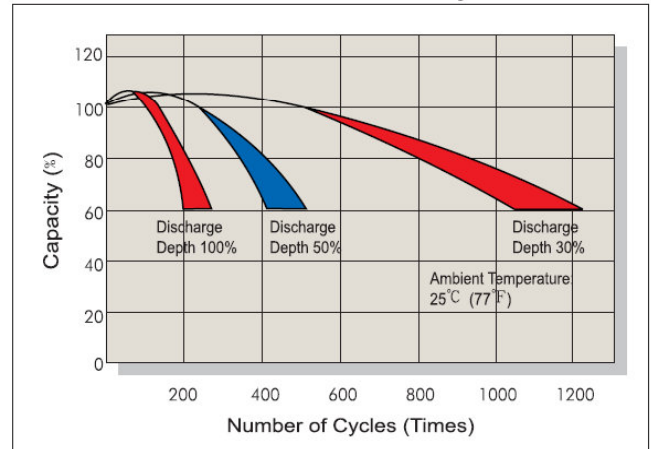
Capacity Retention Characteristic



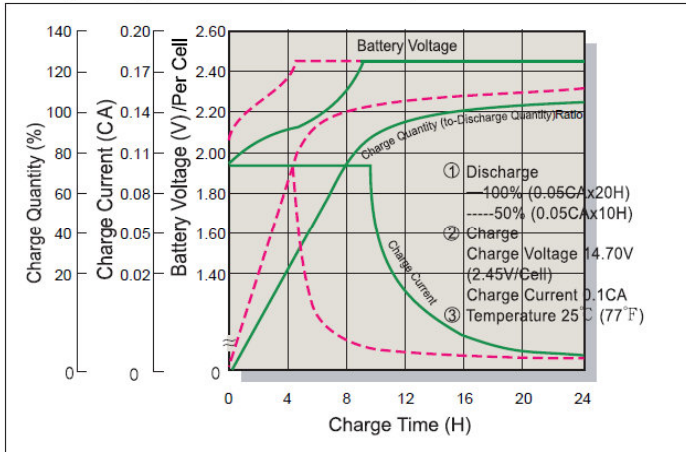
Battery Voltage and Charge Time for Standby Use



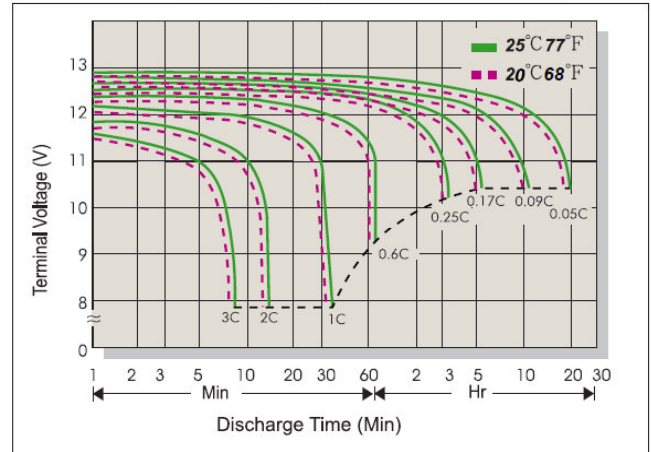
Cycle Service Life



Battery Voltage and Charge Time for Cycle Use



Terminal Voltage (V) and Discharge Time



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	0.25C
Standby	25°C(77°F)	2.275	2.25~2.30	

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.75	1.70	1.65	1.60
Discharge Current (A)	0.2C > (A)	0.2C < (A)	0.5C < (A)	(A) > 1.0C

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