



## 6FM120G/C (12V120Ah)

**LONGWAY®** Standard battery is design for a general purpose by KaiYing Power. 6FM120G is a general purpose battery up to 8 years in float 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



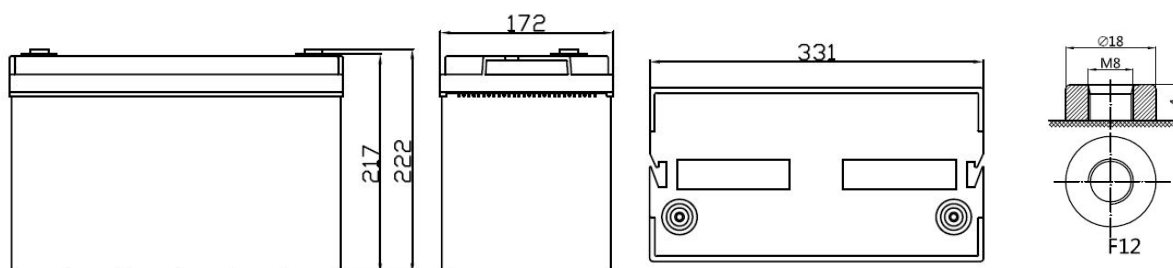
ISO 14001:2004 Standard



### Specifications:

Cells per Unit	6
Normal Voltage	12V
Capacity	120Ah@10Hr-rate to 1.80V per cell@25°C
Weight	Approx.(32.0±3% kg) (70.55lbs)
Maximum Discharge Current	100A(5sec)
Internal Resistance	Approx. 4.1mΩ 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	25A
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 F12
Container Material	ABS(UL94-HB) *Flammability resistance of (UL94-V0) can be available upon request

**Dimensions:** L331\*W173\*H217(TH222)mm



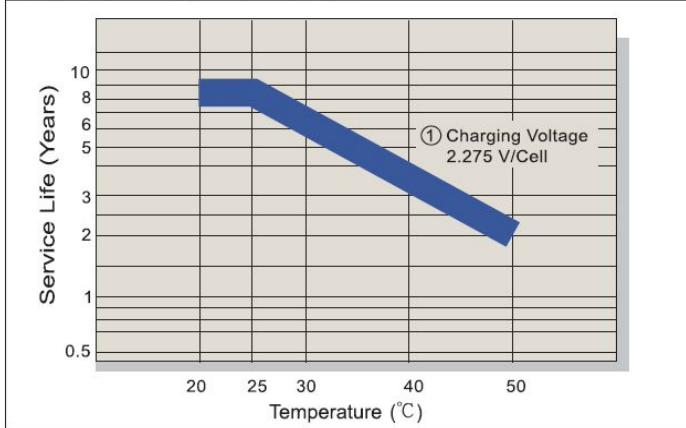
### Constant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	358	295	232	141.0	78.0	46.9	35.3	22.7	14.62	12.18	6.39
9.90	347	286	227	138.2	76.4	46.7	35.1	22.5	14.54	12.12	6.36
10.2	340	280	223	135.4	74.9	46.2	34.8	22.3	14.49	12.07	6.34
10.5	320	272	216	131.1	72.5	45.7	34.5	22.1	14.44	12.04	6.32
10.8	293	264	211	128.6	71.1	45.3	34.1	21.9	14.40	12.00	6.30

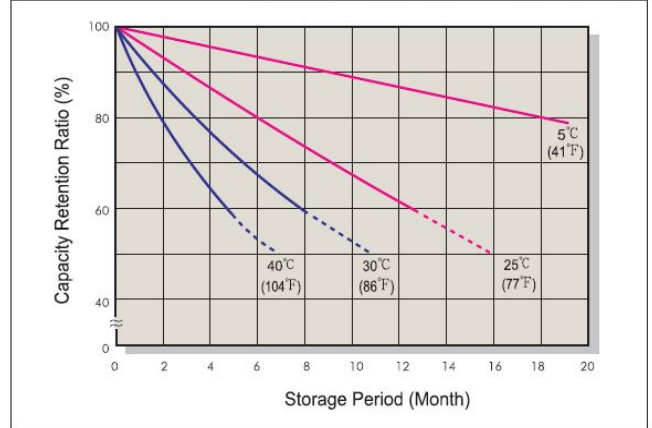
### Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	3862	3224	2573	1582	889	543	415	268	175.4	145.4	76.7
9.90	3746	3127	2495	1550	871	540	413	266	174.5	144.7	76.4
10.2	3669	3062	2444	1519	854	535	409	264	173.8	144.1	76.1
10.5	3457	2966	2367	1471	827	530	405	261	173.3	143.7	75.8
10.8	3167	2879	2322	1443	811	524	401	259	172.8	143.3	75.6

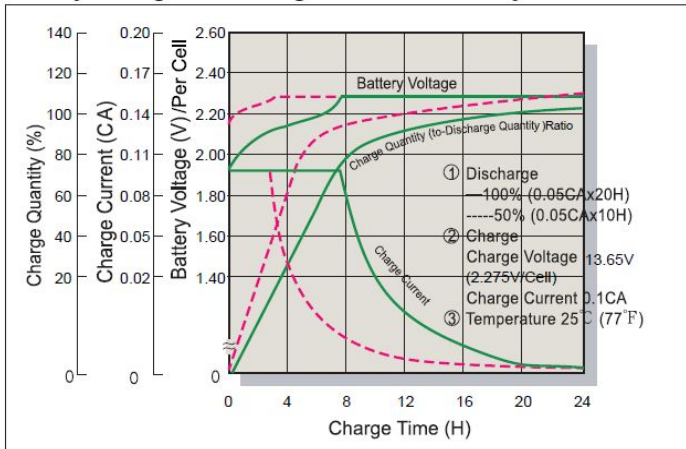
### Trickle (or Float) Service Life



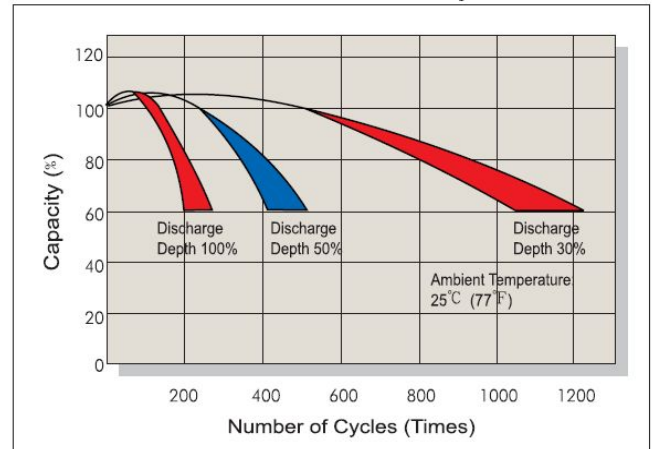
### Capacity Retention Characteristic



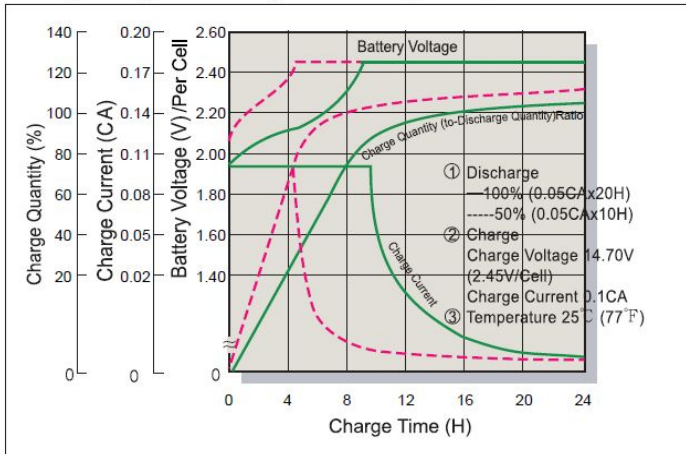
### Battery Voltage and Charge Time for Standby Use



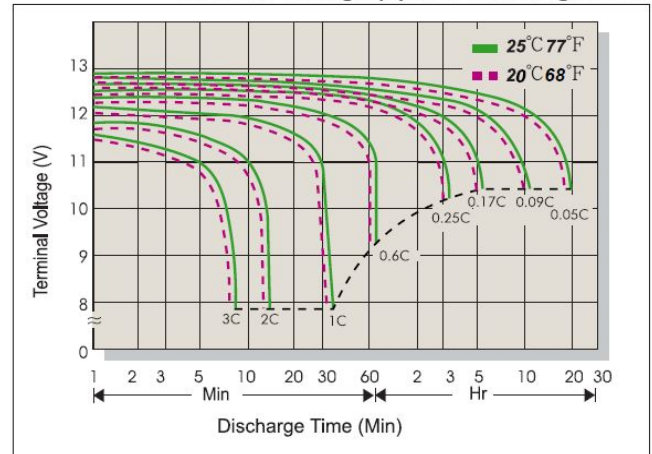
### Cycle Service Life



### 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

KaiYing Power Supply & Electrical Equip Co., Ltd.

Address: KaiYing Industrial Park, ChengXiang Town, Anxi, Quanzhou, Fujian China

Tel: 86-595-68782266 Fax: 86-0595-68782222

Website: [www.longwaybattery.com](http://www.longwaybattery.com) Email: [Sales@longwaybattery.com](mailto:Sales@longwaybattery.com)