



## 6FM70G (12V70Ah)

**LONGWAY®** Standard battery is design for a general purpose by KaiYing Power. 6FM70G 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



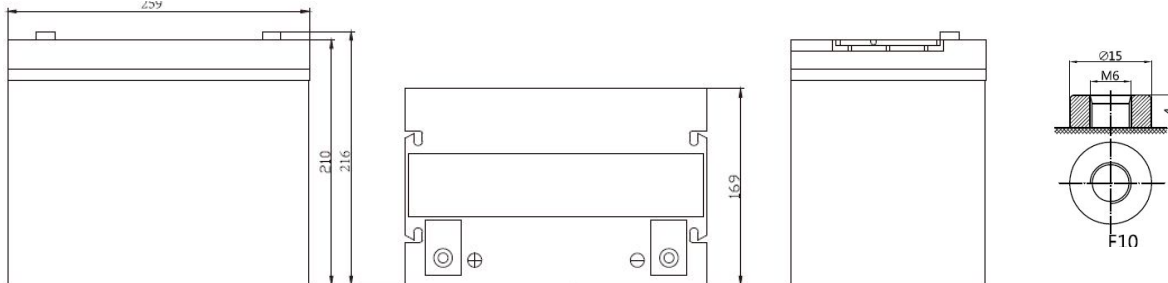
ISO 14001:2004 Standard



### Specifications:

Cells per Unit	6
Normal Voltage	12V
Capacity	70Ah@10Hr-rate to 1.80V per cell@25°C
Weight	Approx. (21.3±3%) kg (46.96lbs)
Maximum Discharge Current	700A(5sec)
Internal Resistance	Approx. 6.0mΩ 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	17.5A
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 F10
Container Material	ABS(UL94-HB) *Flammability resistance of (UL94-V0) can be available upon request

### Dimensions: L259\*W169\*H211(TH216)mm



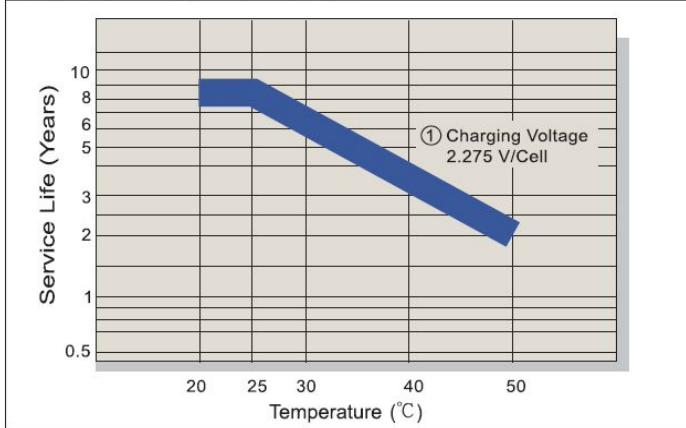
### Constant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	300.0	188.0	144.0	84.00	52.00	28.42	20.30	13.80	8.932	7.470	4.060
9.90	291.0	182.4	140.4	81.90	50.70	28.28	20.20	13.74	8.888	7.478	4.064
10.2	285.0	178.6	138.2	80.64	49.92	28.00	20.00	13.60	8.764	7.404	4.024
10.5	276.0	173.0	133.9	78.12	48.36	27.72	19.80	13.46	8.800	7.382	4.012
10.8	267.9	167.9	131.3	76.61	47.42	27.44	19.60	13.33	8.712	7.360	4.000

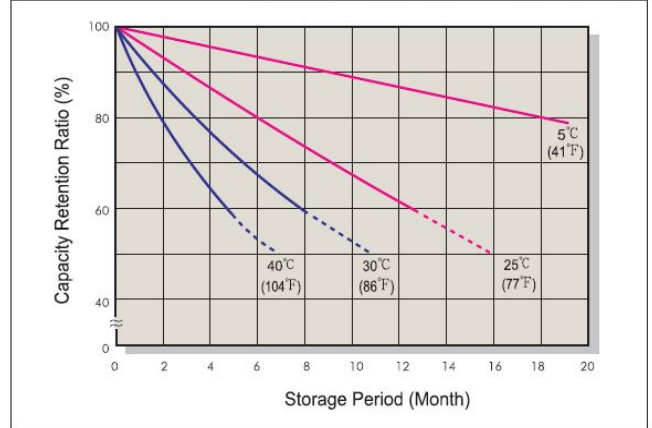
### Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	3258	2121	1642	962.6	602.2	332.5	241.2	164.8	107.2	89.64	48.72
9.90	3248	2057	1601	938.6	587.1	330.9	240.0	164.0	106.7	89.74	48.77
10.2	3181	2015	1576	924.1	578.1	327.6	237.6	162.4	105.2	88.85	48.29
10.5	3080	1951	1527	895.3	560.0	324.3	235.2	160.8	105.6	88.58	48.14
10.8	2990	1894	1497	877.9	549.2	321.0	232.8	159.1	104.5	88.32	48.00

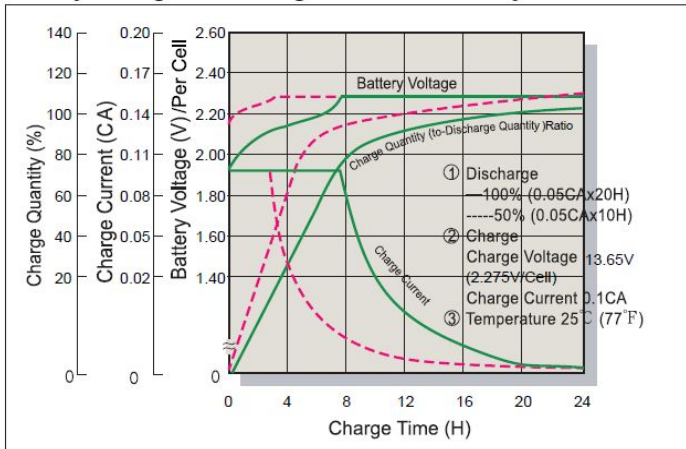
### Trickle (or Float) Service Life



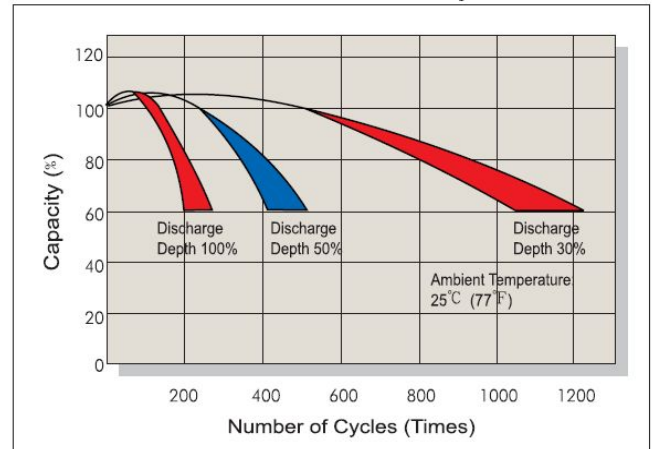
### Capacity Retention Characteristic



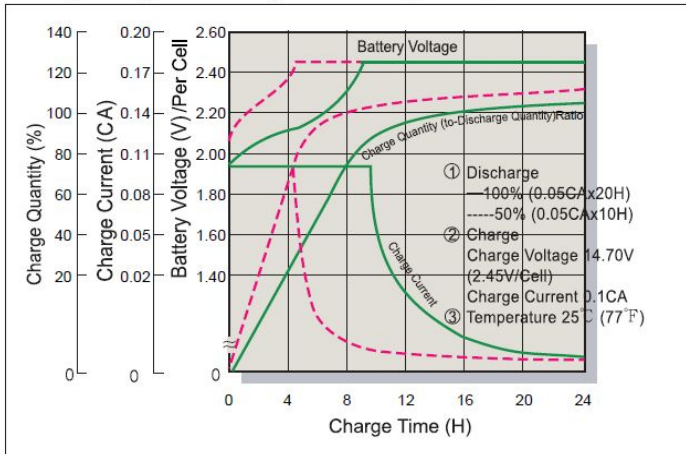
### Battery Voltage and Charge Time for Standby Use



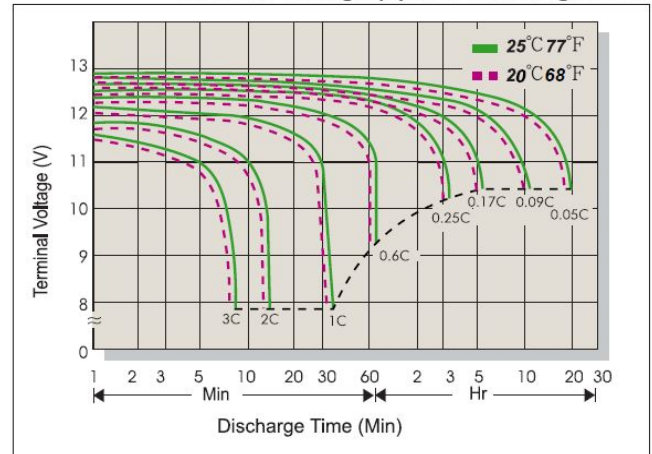
### Cycle Service Life



### 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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