



## 6FM65C/G (12V65Ah)

**LONGWAY®** Standard battery is design for a general purpose by KaiYing Power. 6FM65G 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



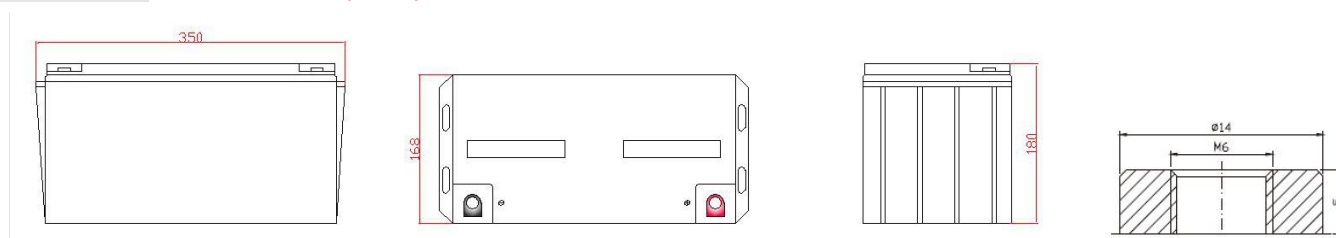
MH46789



### Specifications:

Cells per Unit	6
Normal Voltage	12V
Capacity	65Ah@20Hr-rate to 1.80V per cell@25°C
Weight	Approx.(19.6±3%) kg (46.3lbs)
Maximum Discharge Current	650A(5sec)
Internal Resistance	Approx. 6.5mΩ 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	19.5A
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 F9
Container Material	ABS(UL94-HB) *Flammability resistance of (UL94-V0) can be available upon request

### Dimensions: L350\*W168\*H180(TH180)mm



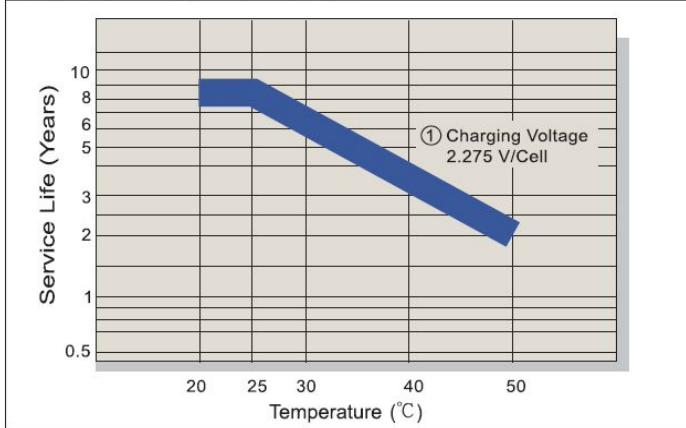
### Constant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	185	153	120	72.9	40.3	24.2	18.2	11.7	7.55	6.29	3.30
9.90	179	148	117	71.4	39.5	24.1	18.2	11.6	7.51	6.26	3.29
10.2	176	145	115	69.9	38.7	23.9	18.0	11.5	7.48	6.24	3.27
10.5	165	140	111	67.8	37.5	23.6	17.8	11.4	7.46	6.22	3.26
10.8	152	136	109	66.4	36.8	23.4	17.6	11.3	7.44	6.20	3.26

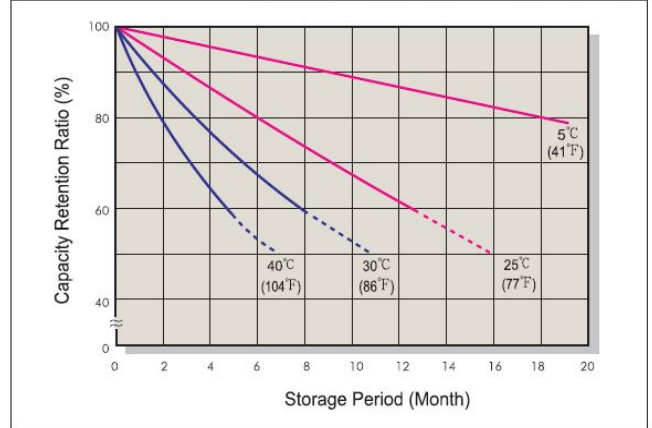
### Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	1995	1666	1330	817	459	281	215	138	90.6	75.1	39.6
9.90	1936	1616	1289	801	450	279	214	138	90.2	74.8	39.5
10.2	1896	1582	1263	785	441	276	211	136	89.8	74.5	39.3
10.5	1786	1532	1223	760	427	274	209	135	89.5	74.3	39.2
10.8	1636	1487	1199	745	419	271	207	134	89.3	74.0	39.1

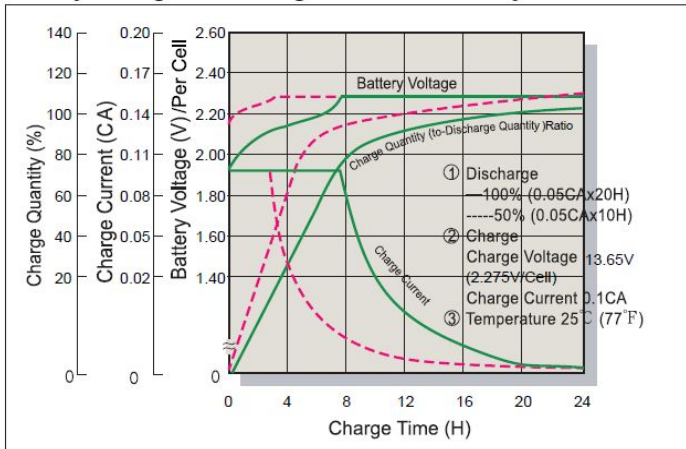
### Trickle (or Float) Service Life



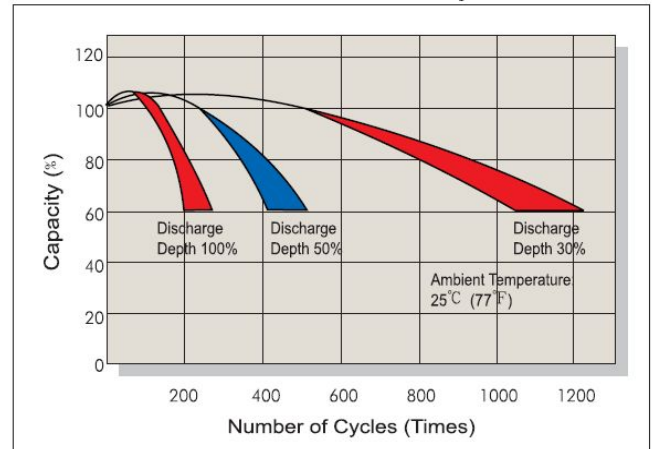
### Capacity Retention Characteristic



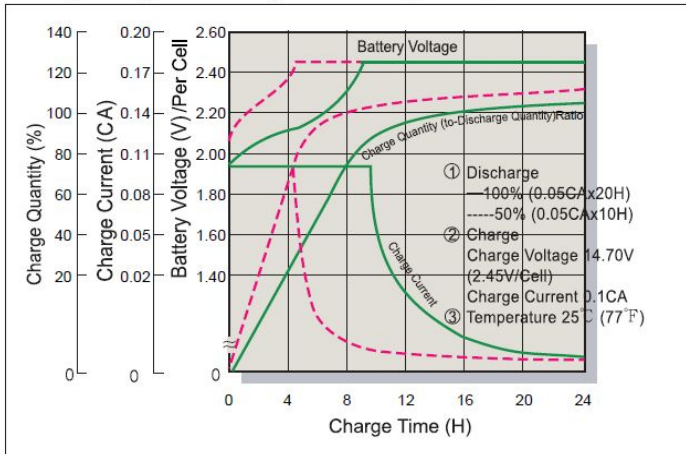
### Battery Voltage and Charge Time for Standby Use



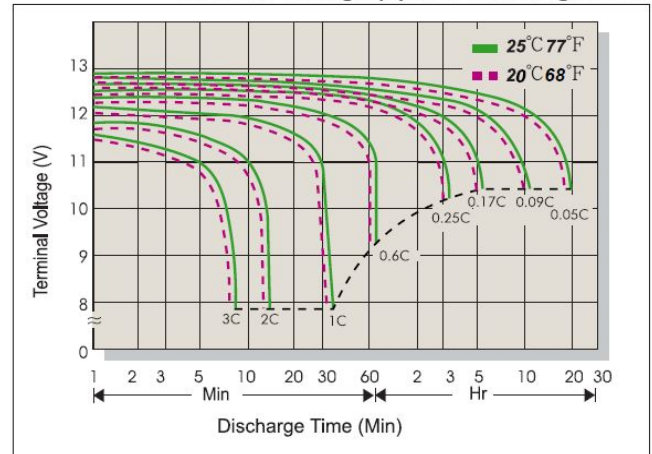
### Cycle Service Life



### 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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