

## 6FM100G/U (12V100Ah)



**LONGWAY®** Standard battery is design for a general purpose by KaiYing Power. 6FM100 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



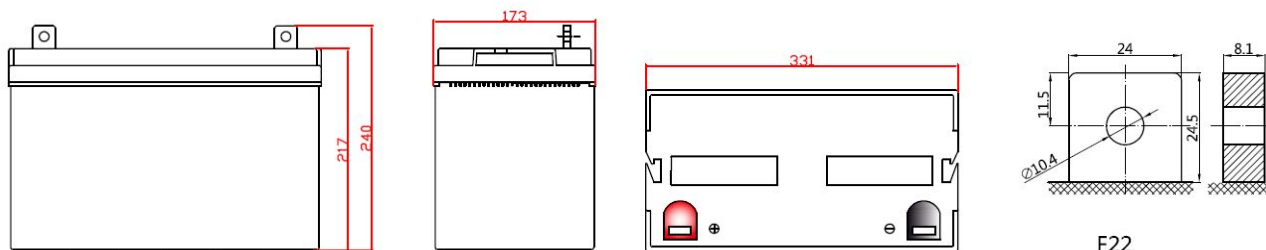
MH46789



### Specifications:

Cells per Unit	6
Normal Voltage	12V
Capacity	100Ah@20Hr-rate to 1.75V per cell@25°C
Weight	Approx.(27.8±3% kg) (61.29lbs)
Maximum Discharge Current	100A(5sec)
Internal Resistance	Approx.5.0mΩ 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	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 F22
Container Material	ABS(UL94-HB) *Flammability resistance of (UL94-V0) can be available upon request

**Dimensions:** L331\*W173\*H217(TH240)mm



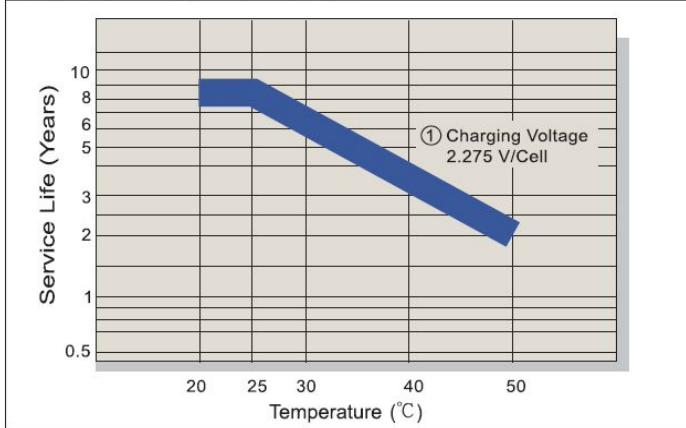
### Constant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	283	234	184	111.6	61.8	37.1	28.0	17.9	11.57	9.64	5.06
9.90	275	227	180	109.4	60.5	36.9	27.8	17.8	11.51	9.60	5.04
10.2	269	222	176	107.2	59.3	36.6	27.6	17.7	11.47	9.56	5.02
10.5	253	215	171	103.8	57.4	36.2	27.3	17.5	11.43	9.53	5.00
10.8	232	209	167	101.8	56.3	35.8	27.0	17.3	11.40	9.50	4.99

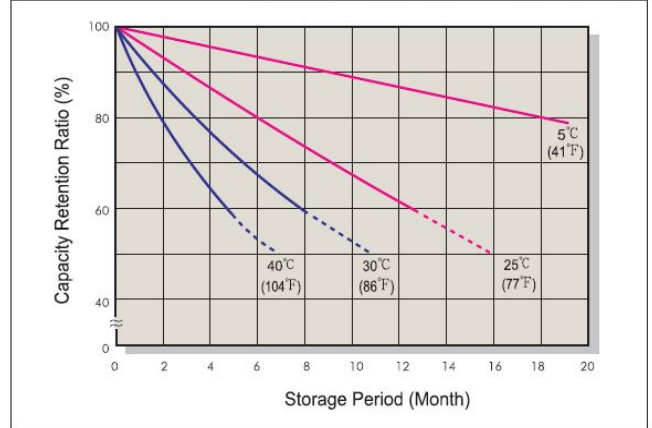
### Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	3057	2552	2037	1252	704	430	329	212	138.9	115.1	60.7
9.90	2966	2475	1975	1227	690	428	327	211	138.2	114.6	60.4
10.2	2905	2424	1935	1202	676	424	324	209	137.6	114.1	60.2
10.5	2736	2348	1874	1165	655	419	321	207	137.2	113.8	60.0
10.8	2507	2279	1838	1142	642	415	318	205	136.8	113.4	59.9

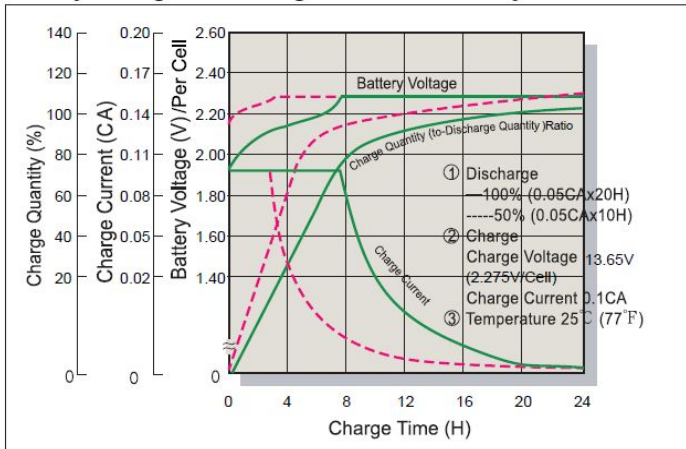
### Trickle (or Float) Service Life



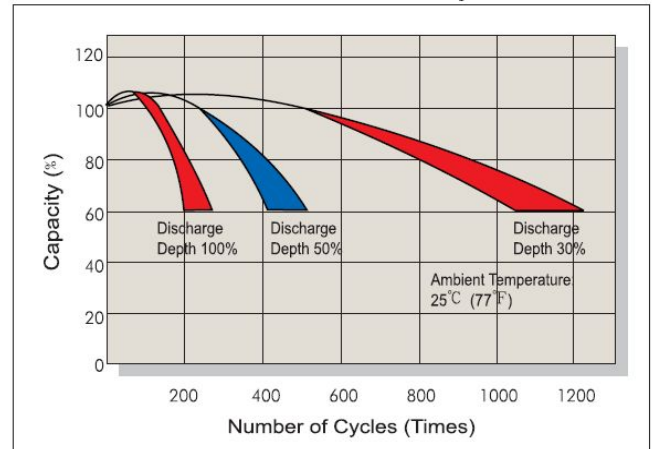
### Capacity Retention Characteristic



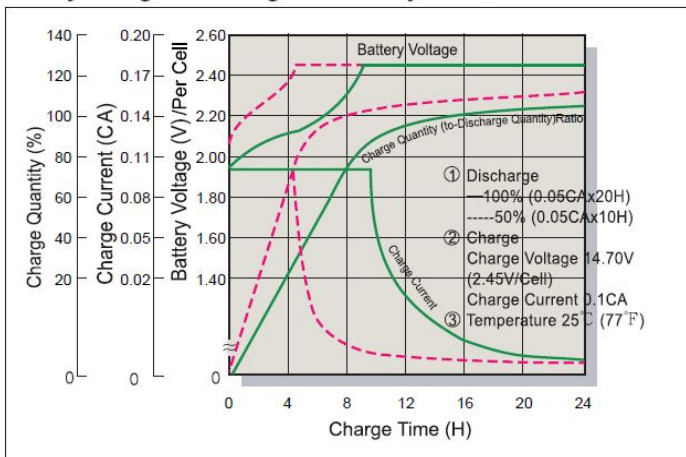
### Battery Voltage and Charge Time for Standby Use



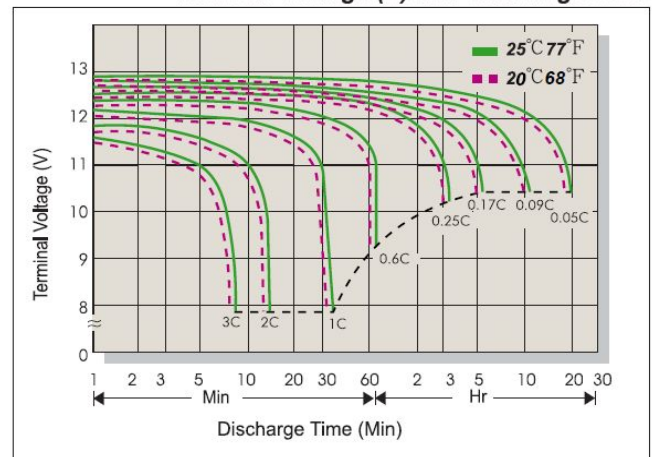
### Cycle Service Life



### 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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