

6FM100G/D (12V100Ah)



LONGWAY® Standard battery is design for a general purpose by KaiYing Power. 6FM100G is a general purpose battery up to 8 years in floate 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



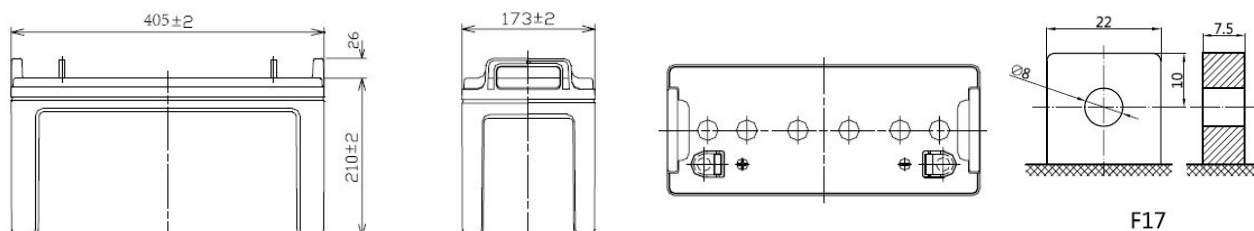
ISO 14001:2004 Standard



Specifications:

Cells per Unit	6
Normal Voltage	12V
Capacity	100Ah@10Hr-rate to 1.80V per cell@25°C
Weight	Approx.(32.0±3% kg) (70.55lbs)
Maximum Discharge Current	1000A(5sec)
Internal Resistance	Approx. 4.8mΩ 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	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 F17
Container Material	ABS(UL94-HB) *Flammability resistance of (UL94-V0) can be available upon request

Dimensions: L405*W173*H210(TH237)mm



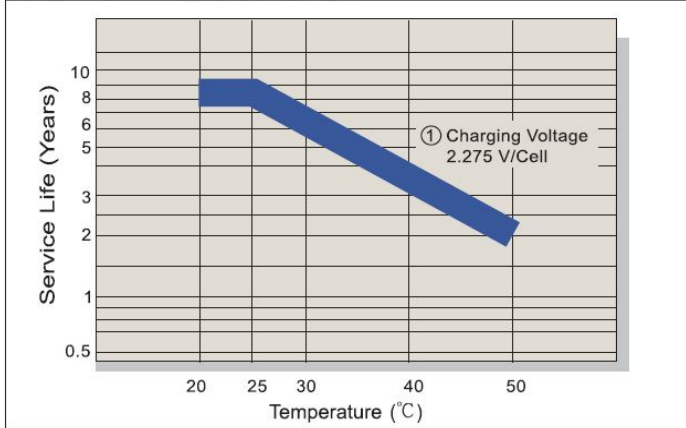
Constant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	307	253	199	121.0	67.0	40.2	30.3	19.4	12.55	10.45	5.49
9.90	298	246	195	118.6	65.6	40.1	30.2	19.3	12.48	10.40	5.46
10.2	292	241	191	116.2	64.3	39.7	29.9	19.2	12.43	10.36	5.44
10.5	275	233	185	112.6	62.3	39.3	29.6	19.0	12.40	10.33	5.42
10.8	252	226	181	110.4	61.1	38.9	29.3	18.8	12.36	10.30	5.41

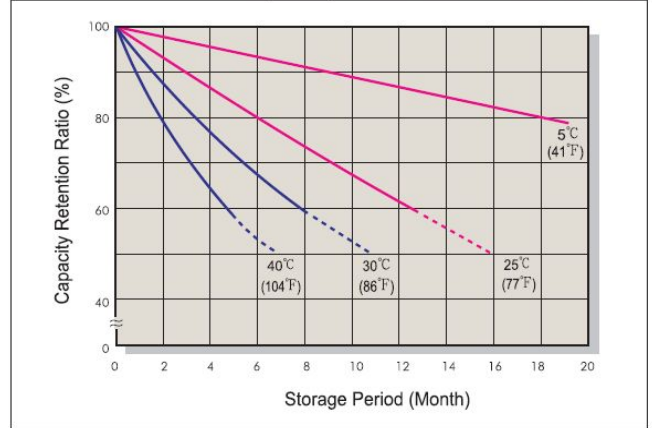
Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	3315	2767	2209	1358	763	466	357	230	150.5	124.8	65.9
9.90	3216	2684	2141	1331	748	464	355	229	149.8	124.2	65.5
10.2	3149	2629	2098	1304	733	459	351	226	149.2	123.7	65.3
10.5	2967	2546	2032	1263	710	455	348	224	148.8	123.4	65.1
10.8	2718	2471	1993	1238	696	450	344	222	148.3	123.0	64.9

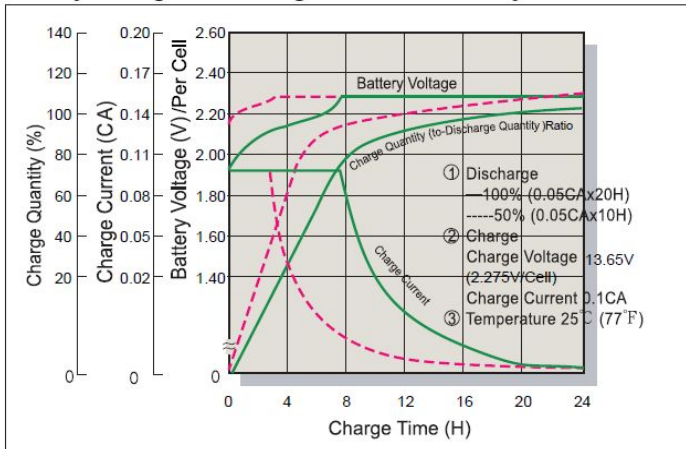
Trickle (or Float) Service Life



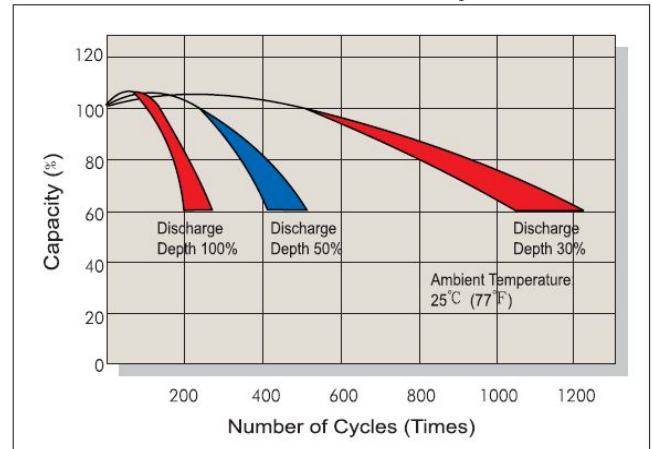
Capacity Retention Characteristic



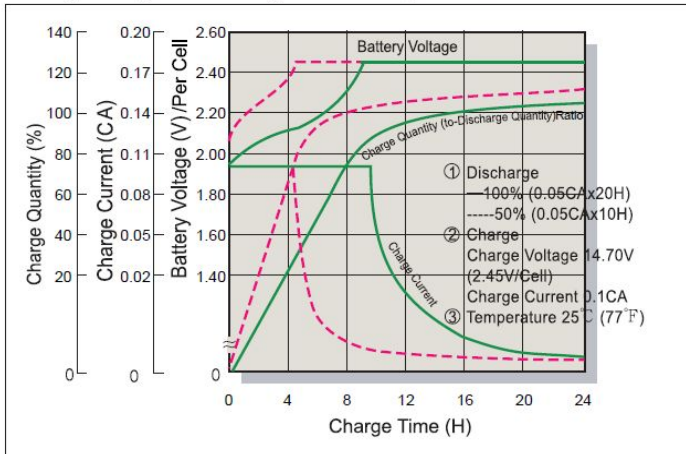
Battery Voltage and Charge Time for Standby Use



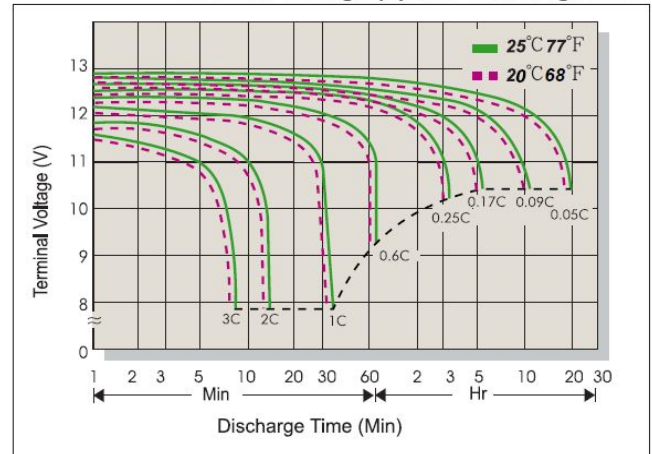
Cycle Service Life



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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