

6FM120G (12V120Ah)



LONGWAY® Standard battery is design for a general purpose by KaiYing Power. 6FM120G 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



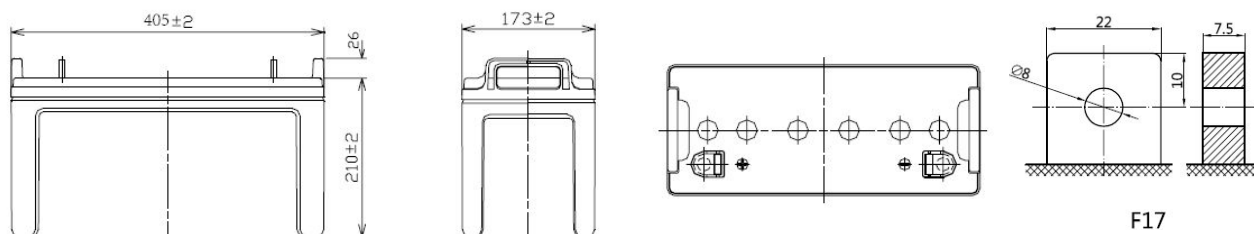
ISO 14001:2004 Standard



Specifications:

Cells per Unit	6
Normal Voltage	12V
Capacity	120Ah@10Hr-rate to 1.80V per cell@25°C
Weight	Approx.(35.0±3% kg) (77.16lbs)
Maximum Discharge Current	1200A(5sec)
Internal Resistance	Approx. 4.5mΩ 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	36A
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



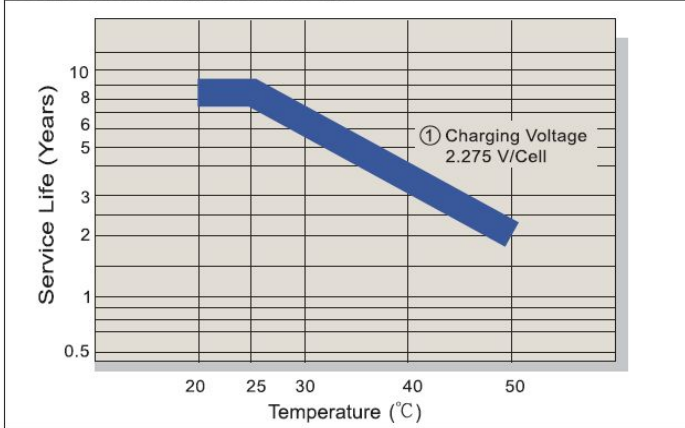
Constant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	370	305	240	145.7	80.6	48.5	36.5	23.4	15.10	12.59	6.61
9.90	358	296	235	142.8	79.0	48.2	36.3	23.3	15.03	12.52	6.58
10.2	351	290	230	139.9	77.4	47.7	36.0	23.1	14.97	12.47	6.55
10.5	331	281	223	135.5	75.0	47.3	35.6	22.8	14.92	12.44	6.53
10.8	303	272	218	132.9	73.5	46.8	35.2	22.6	14.88	12.40	6.51

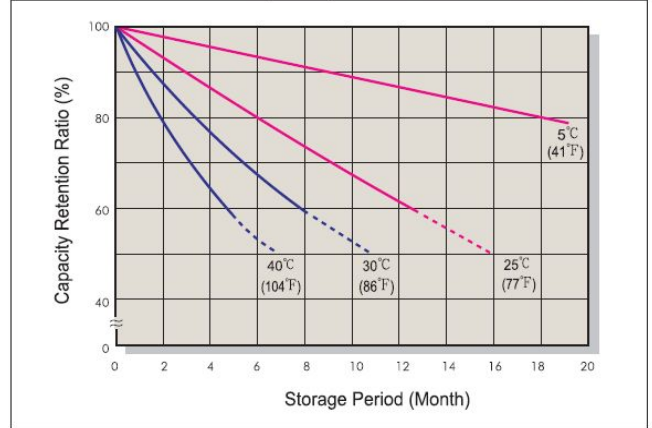
Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	3991	3331	2659	1635	919	561	429	277	181.2	150.3	79.3
9.90	3871	3231	2578	1602	900	558	427	275	180.3	149.5	78.9
10.2	3791	3164	2525	1569	882	553	423	273	179.6	148.9	78.6
10.5	3572	3065	2446	1520	855	547	419	270	179.1	148.5	78.4
10.8	3272	2975	2399	1491	838	542	414	267	178.6	148.1	78.1

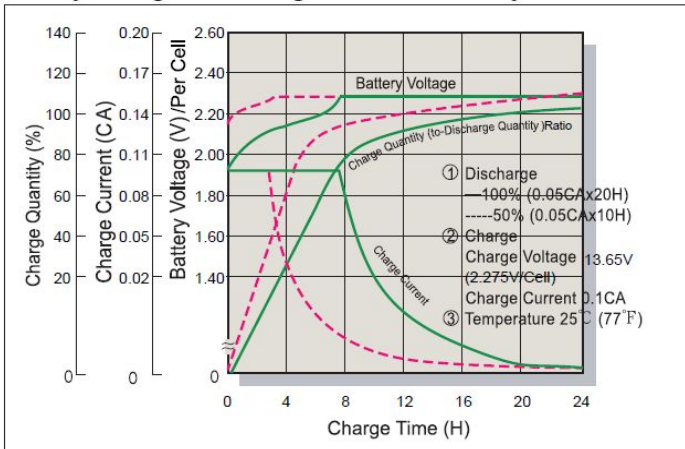
Trickle (or Float) Service Life



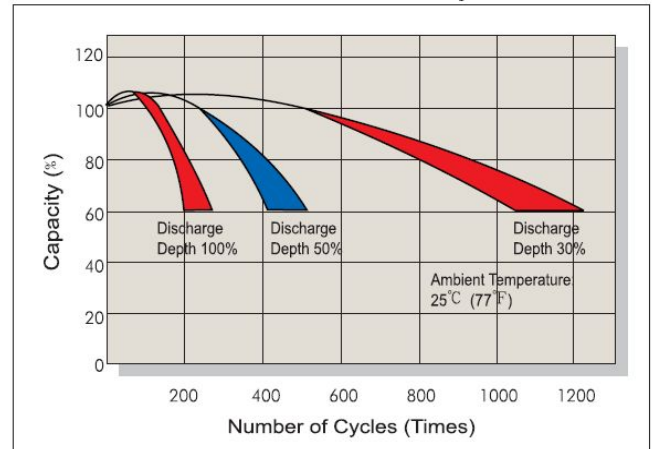
Capacity Retention Characteristic



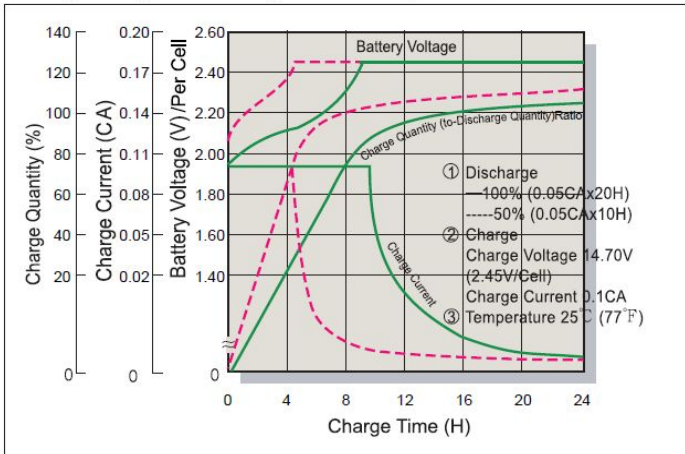
Battery Voltage and Charge Time for Standby Use



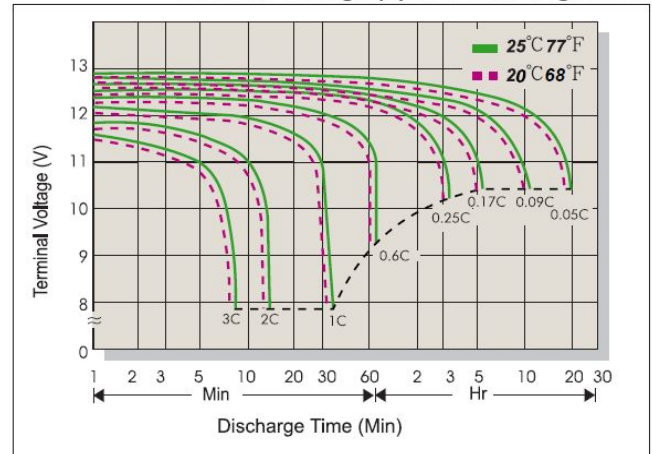
Cycle Service Life



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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