



6FM120G/B (12V120Ah)

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



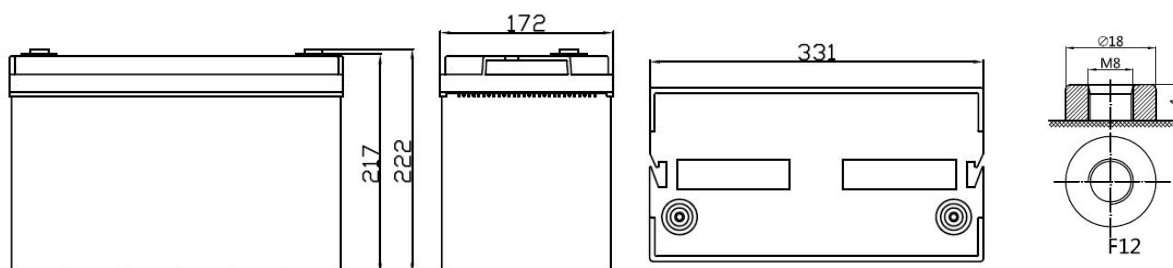
ISO 14001:2004 Standard



Specifications:

Cells per Unit	6
Normal Voltage	12V
Capacity	120Ah@20Hr-rate to 1.80V per cell@25°C
Weight	Approx.(31.0±3% kg) (68.34lbs)
Maximum Discharge Current	100A(5sec)
Internal Resistance	Approx. 4.3mΩ 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 F12
Container Material	ABS(UL94-HB) *Flammability resistance of (UL94-V0) can be available upon request

Dimensions: L331*W173*H217(TH222)mm



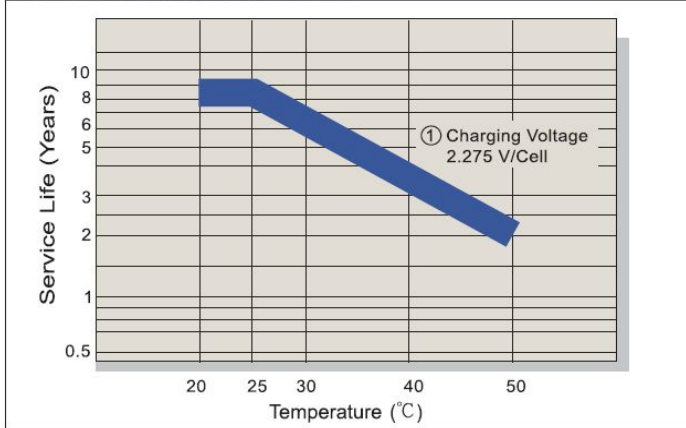
Constant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	343	283	222	135.1	74.8	44.9	33.9	21.7	14.01	11.67	6.13
9.90	332	274	218	132.4	73.3	44.7	33.7	21.6	13.94	11.62	6.10
10.2	326	269	213	129.7	71.8	44.3	33.4	21.4	13.88	11.57	6.07
10.5	307	260	207	125.7	69.5	43.8	33.0	21.2	13.84	11.53	6.06
10.8	281	253	203	123.2	68.2	43.4	32.7	21.0	13.80	11.50	6.04

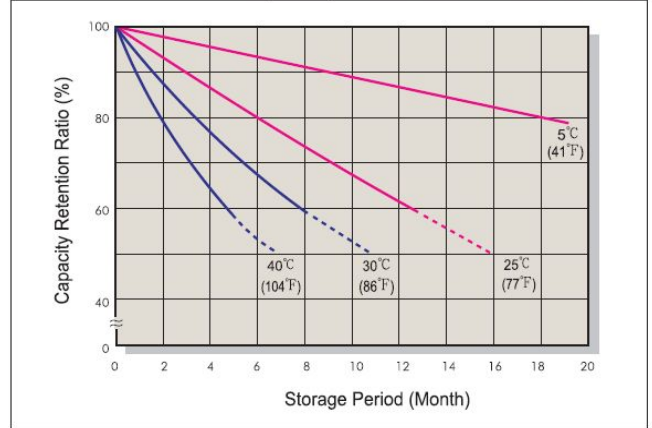
Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	3701	3089	2466	1516	852	520	398	257	168.1	139.4	73.5
9.90	3590	2997	2391	1486	835	518	396	255	167.3	138.7	73.2
10.2	3516	2935	2342	1455	818	513	392	253	166.6	138.1	72.9
10.5	3313	2842	2269	1410	792	508	388	250	166.1	137.7	72.7
10.8	3035	2759	2225	1383	777	502	384	248	165.6	137.3	72.5

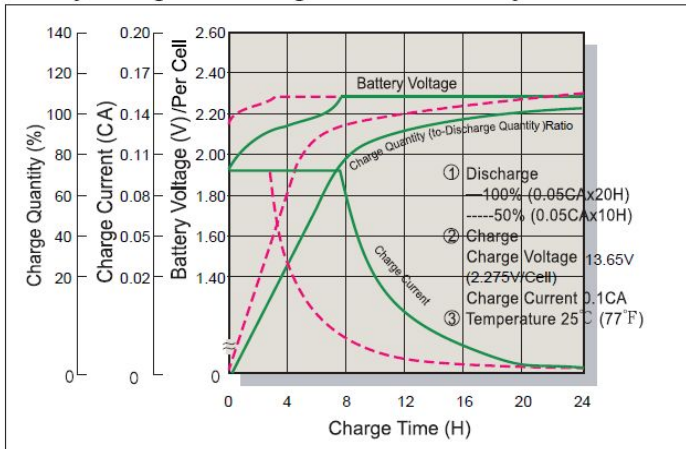
Trickle (or Float) Service Life



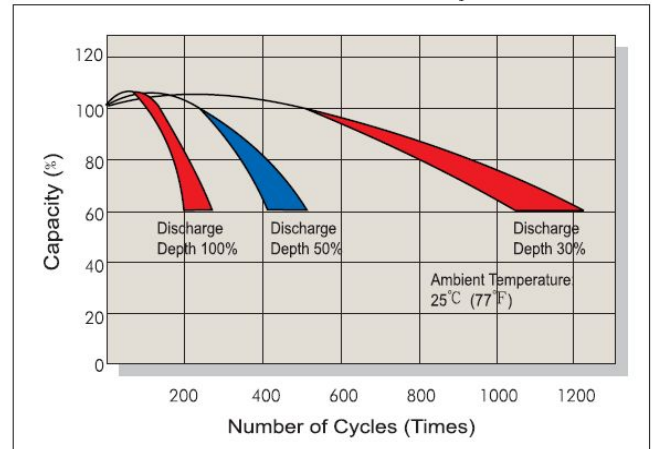
Capacity Retention Characteristic



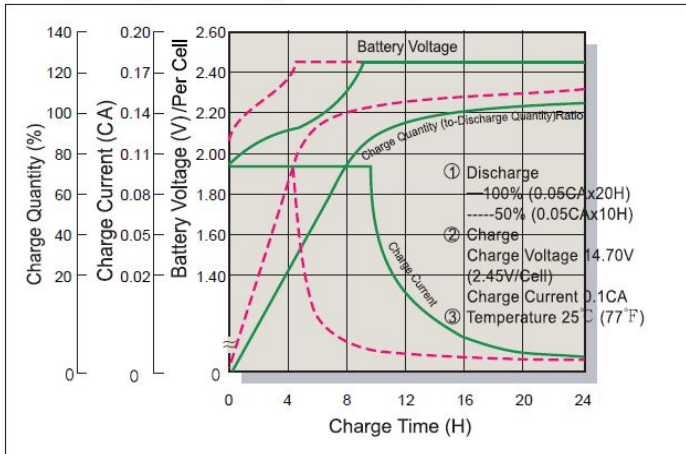
Battery Voltage and Charge Time for Standby Use



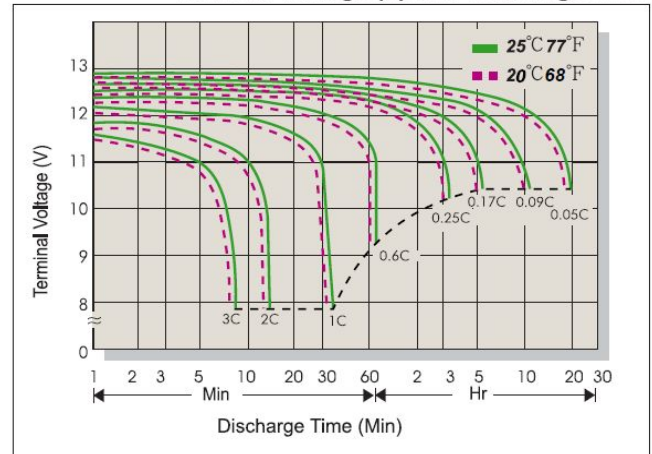
Cycle Service Life



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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