



6FM180G (12V180Ah)

LONGWAY® Standard battery is design for a general purpose by KaiYing Power. 6FM180G 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



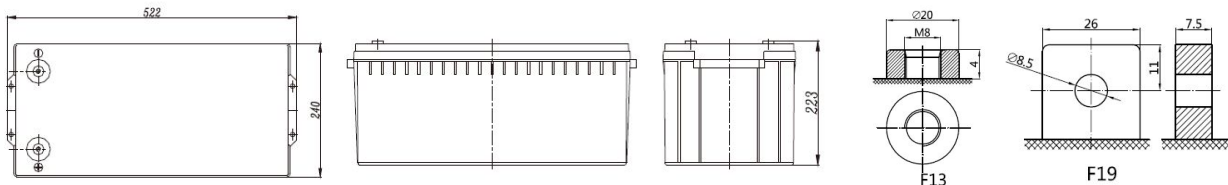
ISO 14001:2004 Standard



Specifications:

Cells per Unit	6
Normal Voltage	12V
Capacity	180Ah@10Hr-rate to 1.80V per cell@25°C
Weight	Approx.(50.5±3% kg) (111.33bs)
Maximum Discharge Current	1800A(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(77°F±5°F)
Float Charging Voltage	13.7~13.9VDC/unit Average @25°C
Maximum Charging Current	45A
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 F13/F19
Container Material	ABS(UL94-HB) *Flammability resistance of (UL94-V0) can be available upon request

Dimensions: L522*W240*H219(TH224)



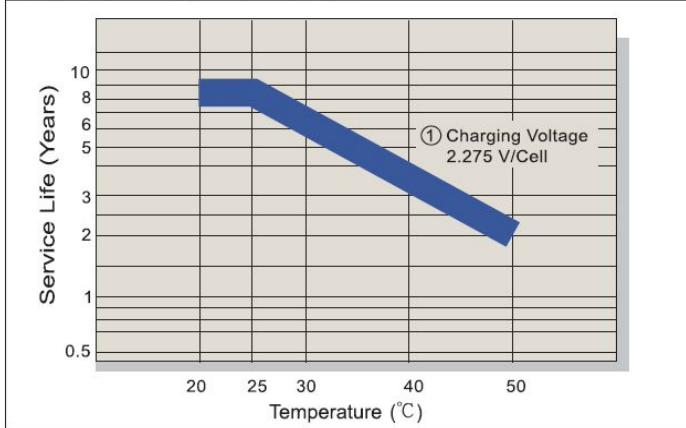
Constant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	536	443	348	211.5	117.0	70.3	53.0	34.0	21.92	18.27	9.59
9.90	520	430	341	207.3	114.7	70.0	52.7	33.8	21.82	18.18	9.54
10.2	510	421	334	203.0	112.3	69.3	52.2	33.5	21.73	18.11	9.51
10.5	480	407	323	196.7	108.8	68.6	51.7	33.1	21.66	18.05	9.48
10.8	440	395	317	192.9	106.7	67.9	51.2	32.8	21.60	18.00	9.45

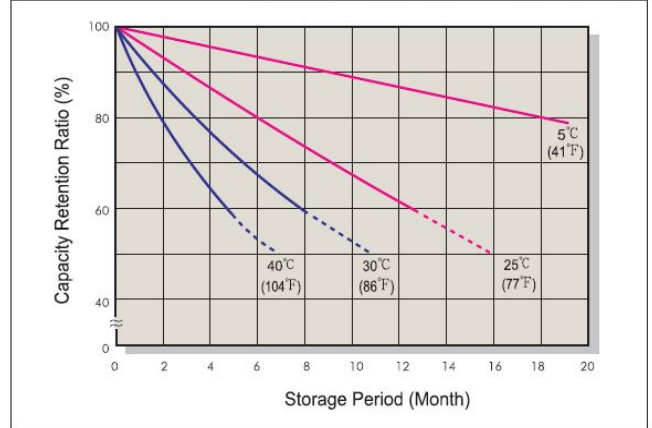
Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	5793	4835	3860	2373	1334	815	623	402	263.1	218.1	115.1
9.90	5619	4690	3742	2326	1307	811	620	400	261.8	217.1	114.5
10.2	5503	4594	3666	2278	1280	802	614	396	260.8	216.2	114.1
10.5	5185	4449	3551	2207	1240	794	608	392	260.0	215.6	113.7
10.8	4750	4318	3482	2164	1216	786	602	388	259.2	214.9	113.4

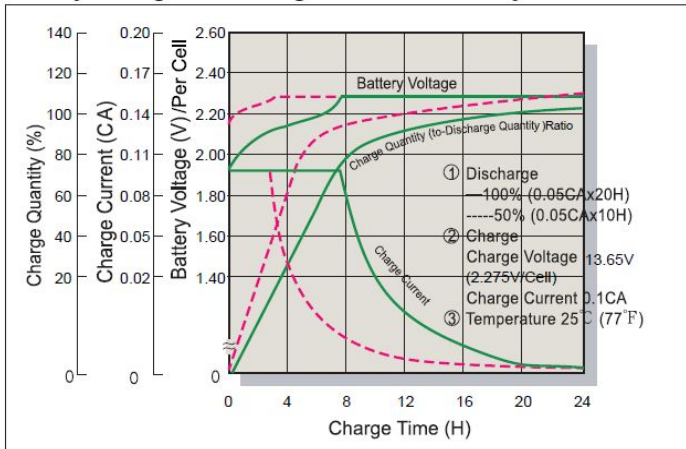
Trickle (or Float) Service Life



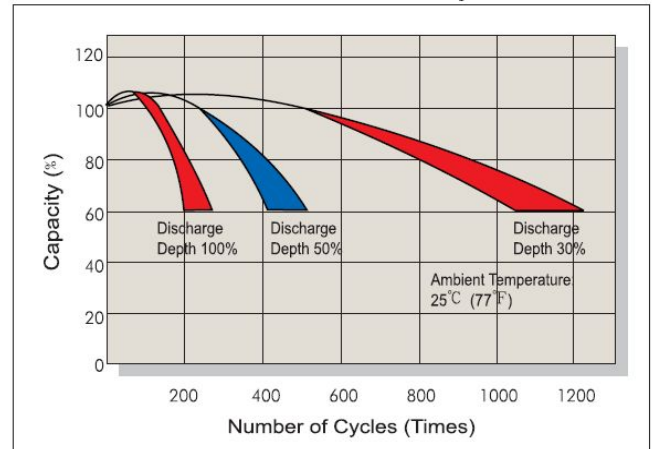
Capacity Retention Characteristic



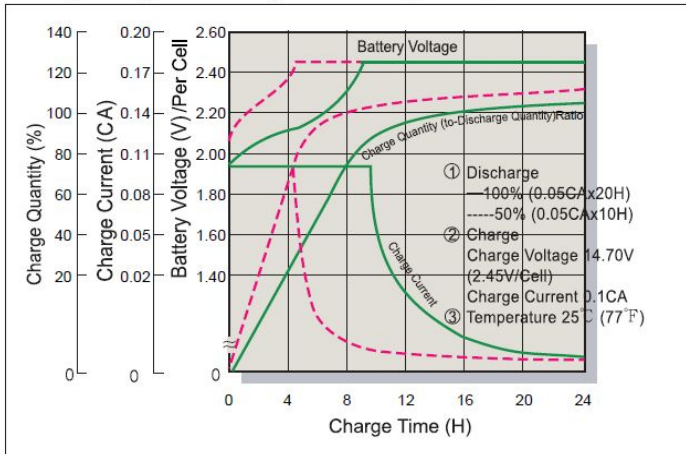
Battery Voltage and Charge Time for Standby Use



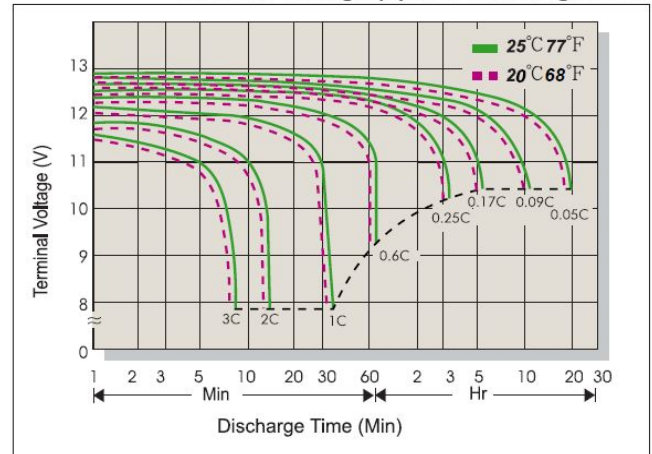
Cycle Service Life



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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