



6FM180FR/A (12V180Ah)

LONGWAY® FR battery is a front terminal battery. 6FM180FR battery is a front terminal battery up to 12 years expected life for Telecom use. As with all LONGWAY® batteries, all are rechargeable highly efficient, leak proof and maintenance free.



Specifications:

Cells per Unit	6
Normal Voltage	12V
Capacity	180Ah@10Hr-rate to 1.80V per cell@25°C
Weight	Approx.(52.8±3%kg) (116.4lbs)
Maximum Discharge Current	1500A(5sec)
Internal Resistance	Approx. 3.8mΩ 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	45.0A
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



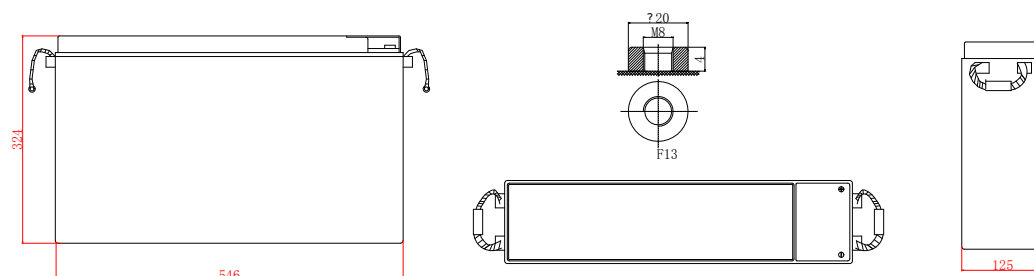
ISO 9001:2008 Standard



ISO 14001:2004 Standard



Dimensions: L546*W125*H324(TH324)



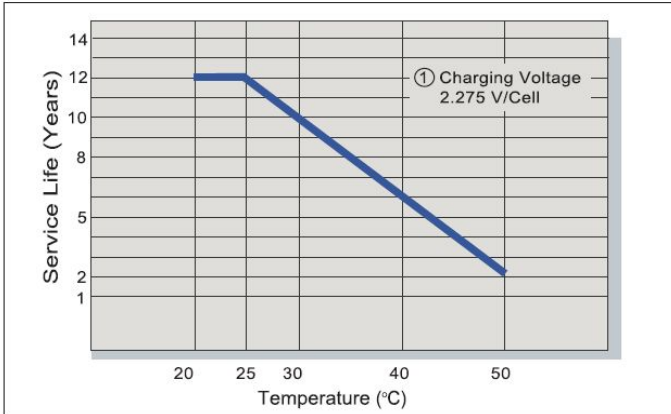
Constant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	504	362	315	203	117	70.5	47.5	32.0	22.0	18.3	9.59
9.90	489	351	309	199	115	70.1	47.3	31.8	21.8	18.2	9.54
10.2	479	344	302	195	112	69.1	46.8	31.5	21.7	18.1	9.51
10.5	464	333	293	189	109	68.4	46.3	31.2	21.6	18.0	9.47
10.8	393	323	287	186	107	67.7	45.9	30.9	21.5	18.0	9.45

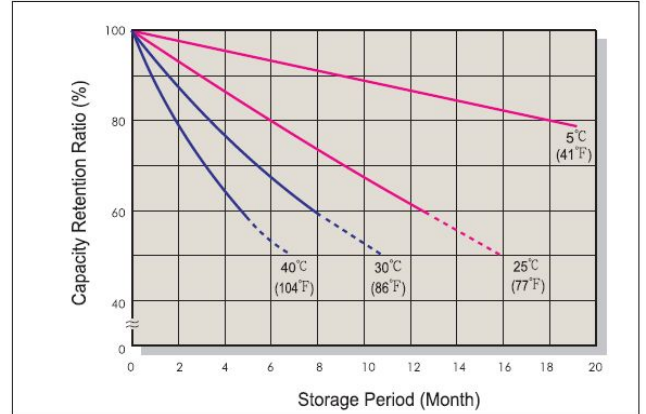
Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	5292	3907	3476	2319	1355	816.0	558.6	377.9	264.4	218.1	115.1
9.90	5133	3790	3406	2272	1307	812.0	555.9	376.1	261.8	217.1	114.5
10.2	5027	3712	3337	2226	1280	800.0	550.4	372.3	260.8	216.2	114.1
10.5	4869	3595	3232	2156	1240	792.1	544.9	368.6	259.2	215.5	113.7
10.8	4128	3489	3170	2115	1216	784.0	539.4	364.9	257.6	214.9	113.4

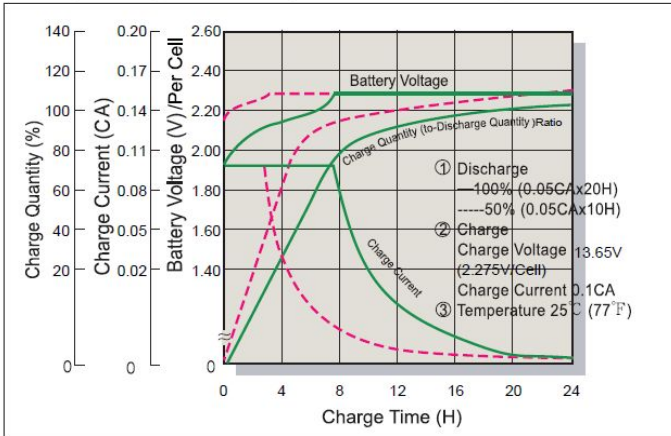
Trickle (or Float) Service Life



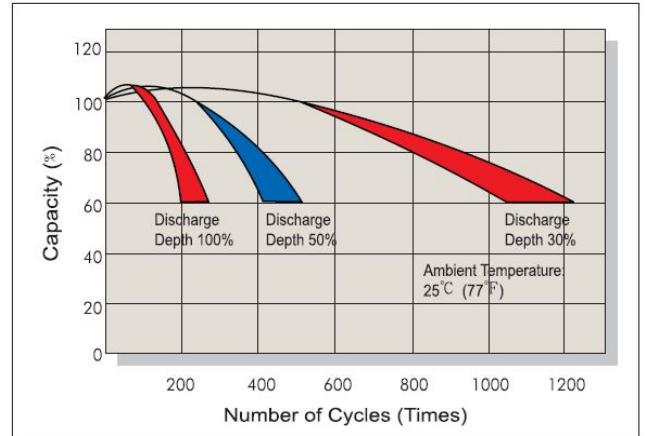
Capacity Retention Characteristic



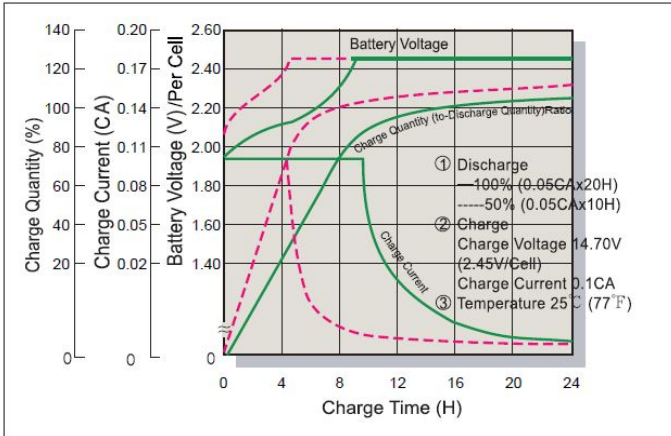
Battery Voltage and Charge Time for Standby Use



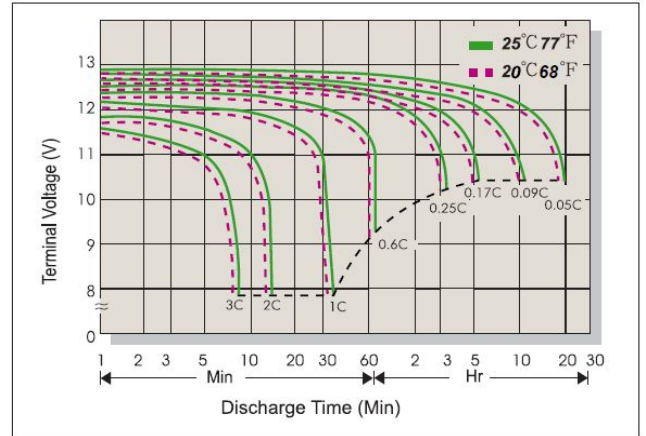
Cycle Service Life



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	0.25 C
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
		< 0.5C	< 1.0C	

KaiYing Power Supply & Electrical Equip Co., Ltd.

Address: KaiYing Industrial Park, ChengXiang Town, Anxi, Quanzhou, Fujian China

Tel: 86-595-68782266 Fax: 86-0595-68782222

Website: www.longwaybattery.com Email: Sales@longwaybattery.com