



6FM12S (12V12Ah)

LONGWAY® 6FM12S is specially designed for green energy systems. 6FM12S have a good deep cycle property, maintenance-free. It can be used for more than 350 cycles at 100% discharge in cycle service, up to 8 years in standby service.



Specifications:

Cells per Unit	6
Normal Voltage	12V
Capacity	12Ah@20Hr-rate to 1.75V per cell@25°C
	14Ah@100Hr-rate to 1.9V per cell@25°C
Weight	Approx. (3.3±3%) kg (7.20lbs)
Maximum Discharge Current	140A(5sec)
Internal Resistance	Approx. 15mΩ 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	4.2A
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	F2(0.250)
Container Material	ABS(UL94-HB) *Flammability resistance of (UL94-V0) can be available upon request



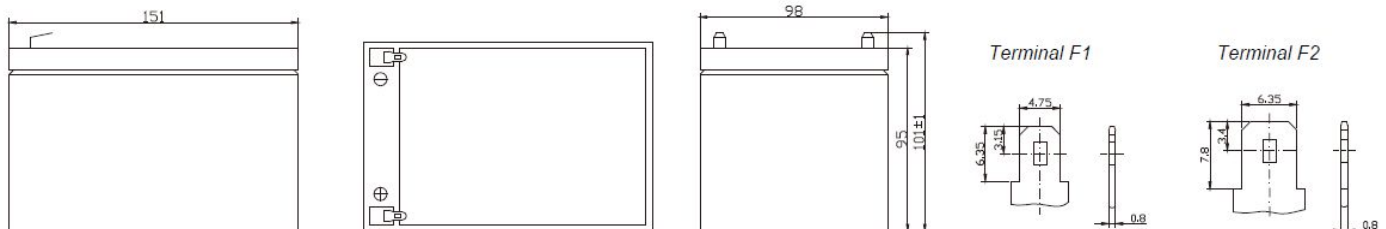
ISO 9001:2008 Standard



ISO 14001:2004 Standard



Dimensions: L151*W98*H96(TH102)



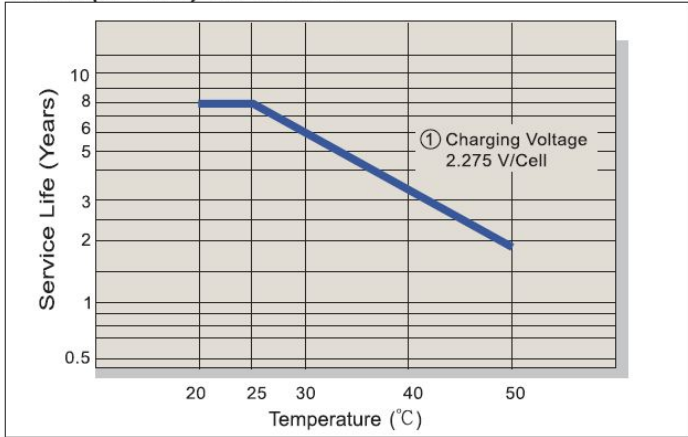
Constant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	48h	100h
9.60	22	14	7.8	4.7	3.2	2.2	1.5	1.2	0.64	0.30	0.14
9.90	21	13	7.6	4.7	3.2	2.2	1.5	1.2	0.64	0.29	0.14
10.2	21	13	7.5	4.6	3.2	2.2	1.4	1.2	0.63	0.29	0.14
10.5	20	13	7.3	4.6	3.1	2.1	1.4	1.2	0.63	0.28	0.14
10.8	20	12	7.1	4.5	3.1	2.1	1.4	1.2	0.63	0.28	0.14

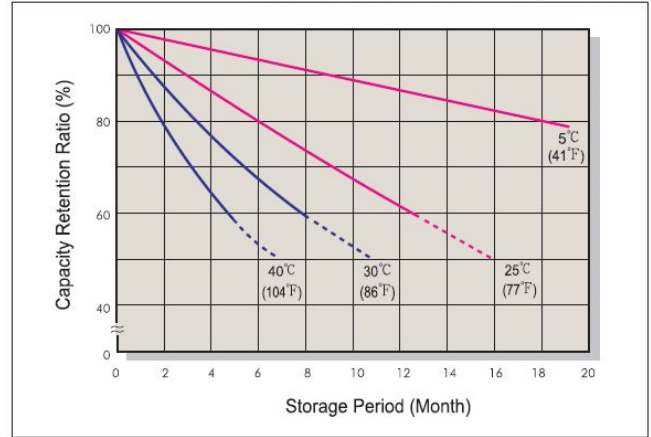
Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	48h	100h
9.60	240	155	90	54	38	26	18	15	7.7	0.59	0.29
9.90	235	151	87	54	38	26	17	14	7.6	0.58	0.29
10.2	230	148	85	53	37	26	17	14	7.6	0.57	0.28
10.5	223	144	83	53	37	25	17	14	7.6	0.57	0.28
10.8	219	141	81	52	37	25	17	14	7.6	0.56	0.28

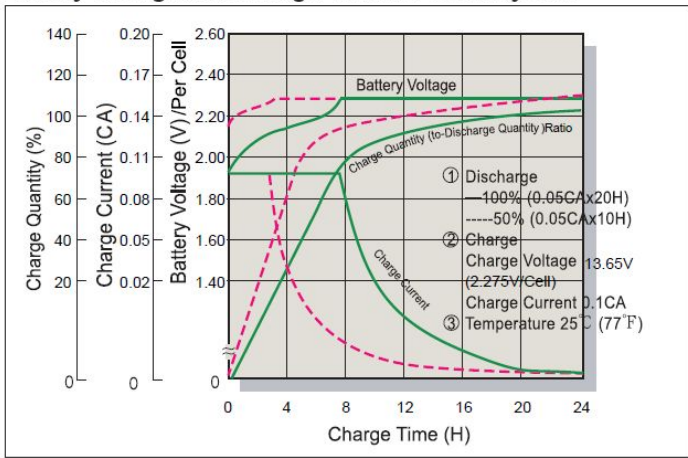
Trickle (or Float) Service Life



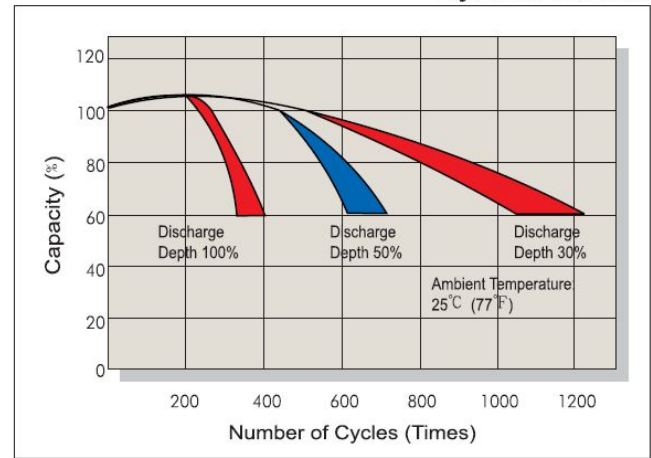
Capacity Retention Characteristic



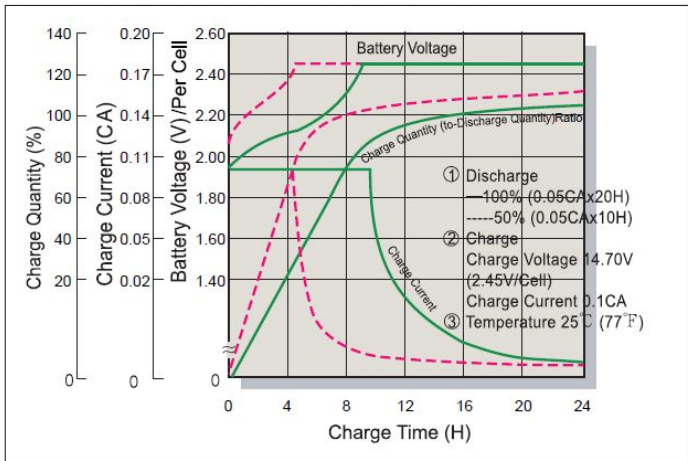
Battery Voltage and Charge Time for Standby Use



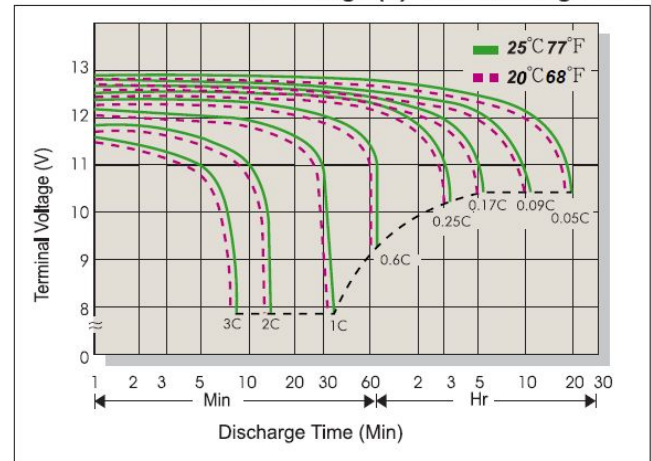
Cycle Service Life



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	0.3C
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

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