



## 6FM200S(12V200Ah)

LONGWAY® 6FM200S is specially designed for green energy systems. 6FM200S 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 12 years in standby service.



ISO 9001:2008 Standard



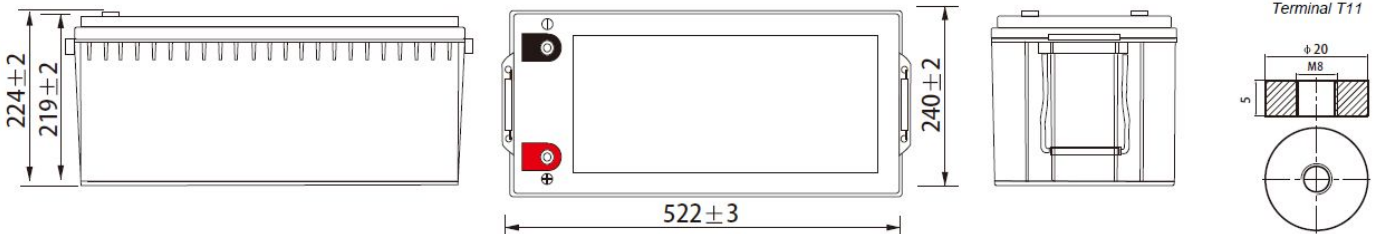
ISO 14001:2004 Standard



### Specifications:

Cells per Unit	6
Normal Voltage	12V
Capacity	200Ah@10Hr-rate to 1.80V per cell@25°C
	230Ah@100Hr-rate to 1.90V per cell@25°C
Weight	Approx. (62±3%) kg (136.7lbs)
Maximum Discharge Current	2000A(5sec)
Internal Resistance	Approx. 4mΩ 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	50A
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 F11
Container Material	ABS(UL94-HB) *Flammability resistance of (UL94-V0) can be available upon request

**Dimensions:** L522\*W240\*H219(TH224)



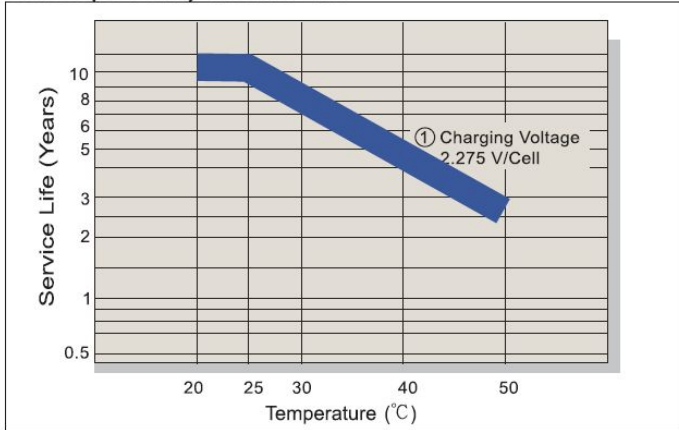
### Constant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	48h	100h
9.60	362	226	130	78.3	53.8	36.5	24.5	20.3	10.7	4.95	2.40
9.90	355	221	127	77.9	53.5	36.4	24.2	20.2	10.6	4.87	2.39
10.2	348	217	125	76.8	53.0	36.0	24.1	20.1	10.6	4.78	2.35
10.5	337	210	121	76.0	52.5	35.6	24.0	20.1	10.5	4.73	2.32
10.8	330	206	119	75.2	51.9	35.3	19.2	20.0	10.5	4.65	2.30

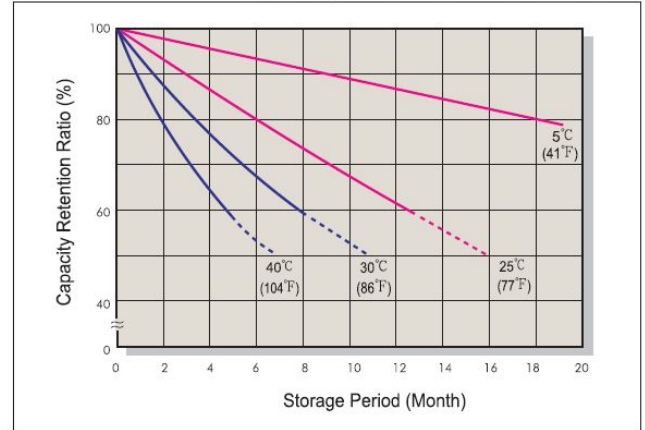
### Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	48h	100h
9.60	3994	2576	1505	907	633	432	294	242	128	9.88	4.79
9.90	3914	2525	1452	902	630	430	291	241	127	9.71	4.77
10.2	3835	2473	1423	889	623	426	290	240	127	9.54	4.69
10.5	3715	2396	1378	880	617	421	288	239	126	9.43	4.63
10.8	3643	2350	1352	871	611	417	230	239	126	9.28	4.59

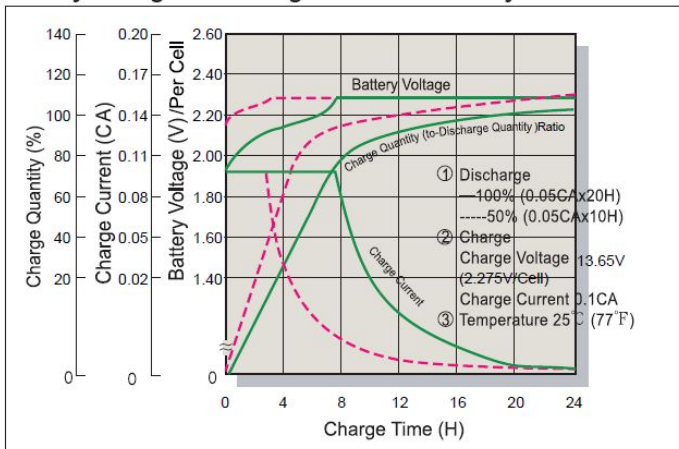
### Trickle (or Float) Service Life



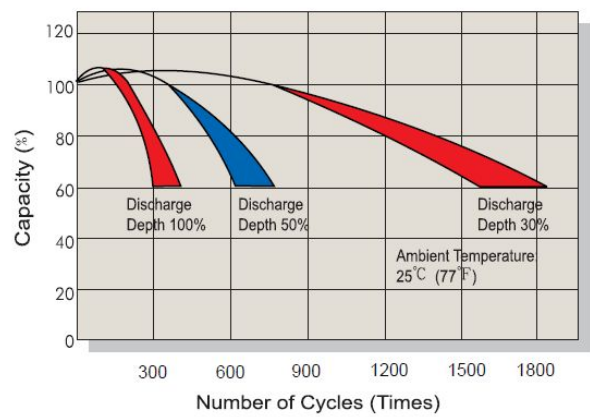
### Capacity Retention Characteristic



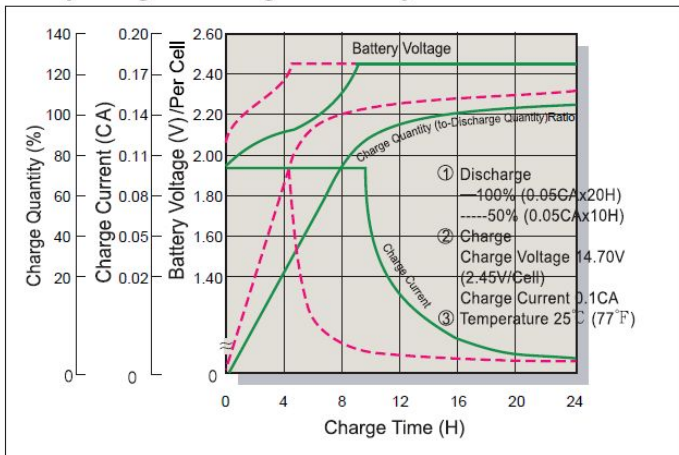
### Battery Voltage and Charge Time for Standby Use



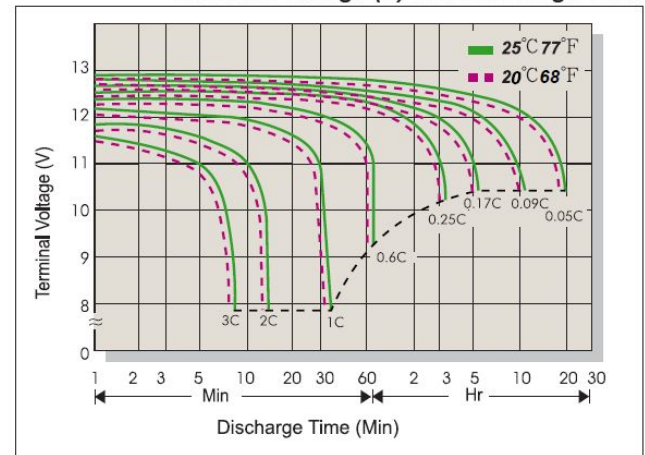
### Cycle Service Life



### 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

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](http://www.longwaybattery.com) Email: [Sales@longwaybattery.com](mailto:Sales@longwaybattery.com)