



## 6FM150S (12V150Ah)

LONGWAY® 6FM150AGM is specially designed for green energy systems. 6FM150AGM 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.



### Specifications:

Cells per Unit	6
Normal Voltage	12V
Capacity	150Ah@10Hr-rate to 1.80V per cell@25°C
	173Ah@100Hr-rate to 1.90V per cell@25°C
Weight	Approx. (44.5 kg ± 3%) (98.10lbs)
Maximum Discharge Current	1500A(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	37.5A
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 F18/F13
Container Material	ABS(UL94-HB) *Flammability resistance of (UL94-V0) can be available upon request



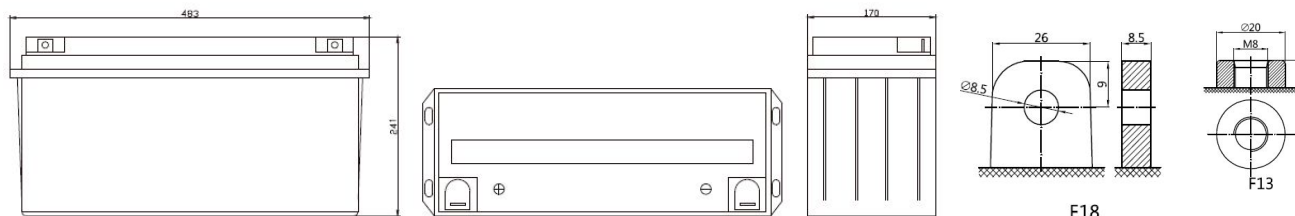
ISO 9001:2008 Standard



ISO 14001:2004 Standard



**Dimensions:** L483\*W170\*H241 (TH241)



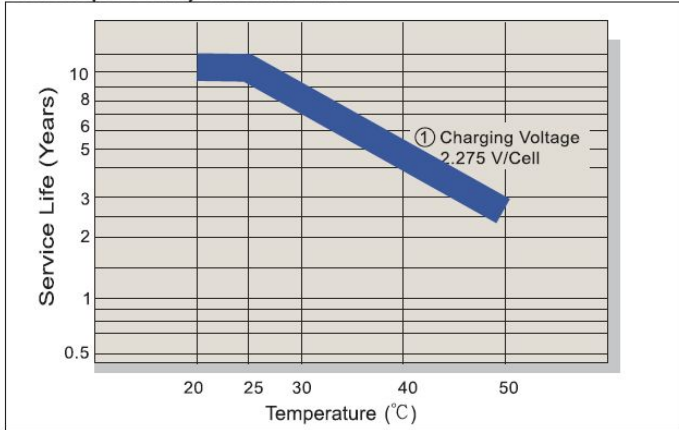
### Constant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	48h	100h
9.60	272	170	97.5	58.7	40.3	27.4	18.4	15.2	7.99	3.71	1.80
9.90	266	166	95.6	58.4	40.1	27.3	18.2	15.2	7.95	3.65	1.79
10.2	261	163	93.6	57.6	39.8	27.0	18.1	15.1	7.92	3.59	1.76
10.5	252	158	90.7	57.0	39.4	26.7	18.0	15.0	7.89	3.55	1.74
10.8	248	155	88.9	56.4	39.0	26.5	14.4	15.0	7.88	3.49	1.73

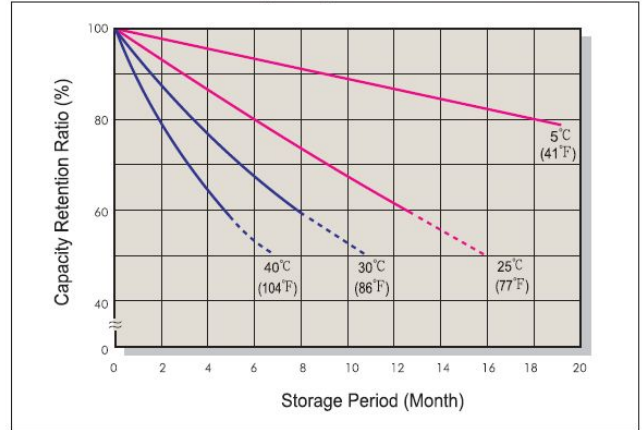
### Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	48h	100h
9.60	2996	1932	1129	680	474	324	220	182	95.9	7.41	3.60
9.90	2936	1894	1089	677	472	322	218	181	95.4	7.28	3.58
10.2	2876	1855	1067	667	467	319	217	180	95.1	7.15	3.52
10.5	2786	1797	1034	660	463	316	216	180	94.7	7.08	3.47
10.8	2732	1762	1014	653	458	313	173	179	94.5	6.96	3.44

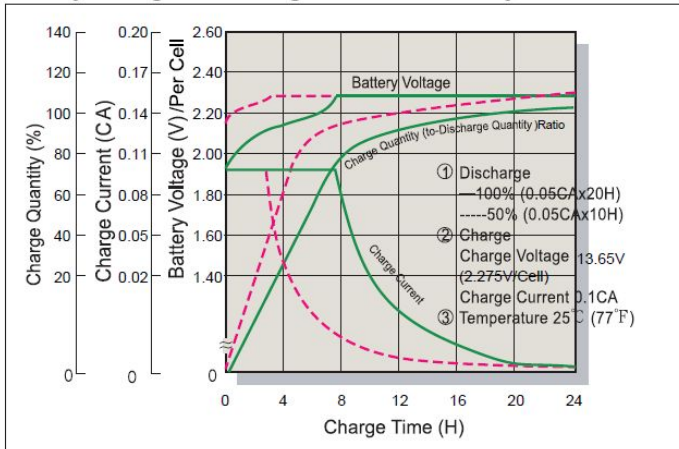
### Trickle (or Float) Service Life



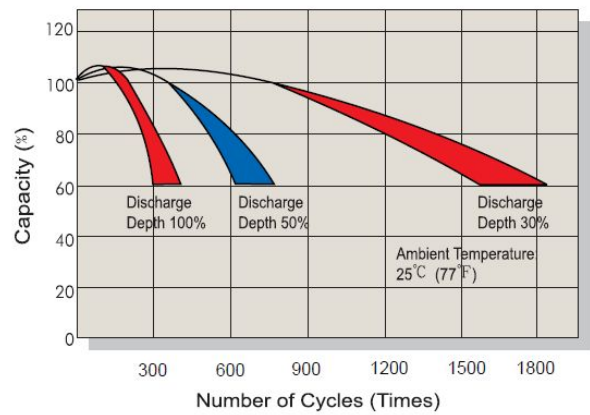
### Capacity Retention Characteristic



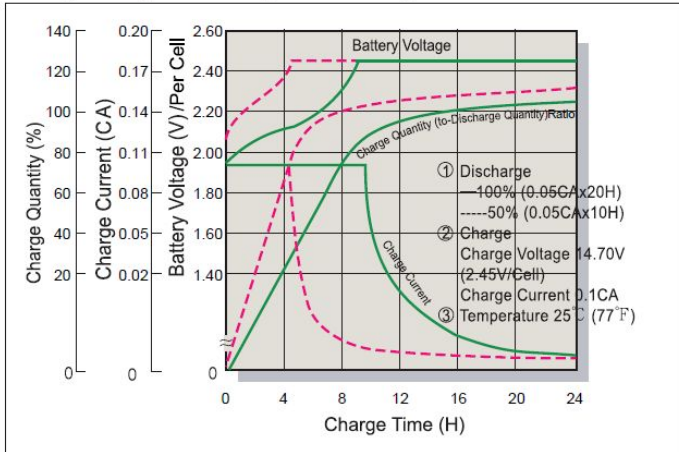
### Battery Voltage and Charge Time for Standby Use



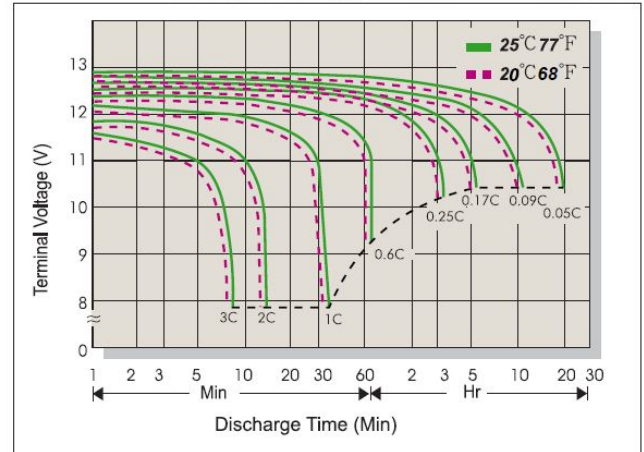
### Cycle Service Life



### 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

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