



## 6FM150H (12V150Ah)

LONGWAY® 6FM150H specially designed for high efficient discharge application. Its characteristics are high energy density, small footprint and high discharge efficiency. It can be used for more than 260 cycles at 100% discharge in cycle service, up to 10 year in standby service.



ISO 9001:2008 Standard



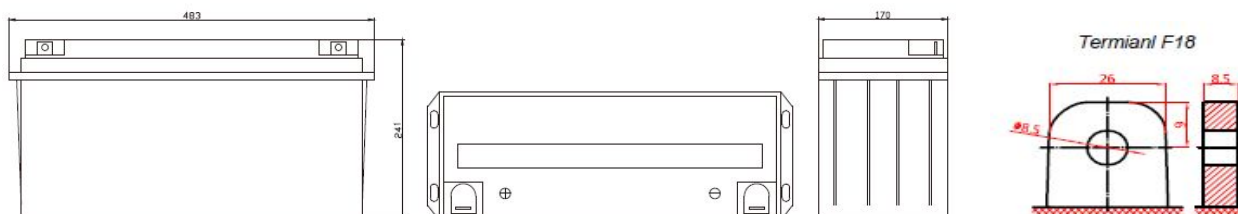
ISO 14001:2004 Standard



### Specifications:

Cells per Unit	6
Normal Voltage	12V
Capacity	150Ah@10Hr-rate to 1.80V per cell@25°C
Weight	Approx.(44.5±3% kg) (98.11lbs)
Maximum Discharge Current	1500A(5sec)
Internal Resistance	Approx. 4mΩ full charged @25°C(77°F)
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(77°F)
Maximum Charging Current	45A
Equalization and Cycle Service	14.4V~15.0VDC/unit Average @ 25°C(77°F)
Self Discharge	LONGWAY Valve Regulated Lead Acid (VRLA) batteries can be stored for more than 6 months at 25°C(77°F). Self-discharge ratio less than 3% per month at 25°C(77°F). Please charge batteries before using.
Terminal	Terminal F18
Container Material	ABS(UL94-HB) *Flammability resistance of (UL94-V0) can be available upon request

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



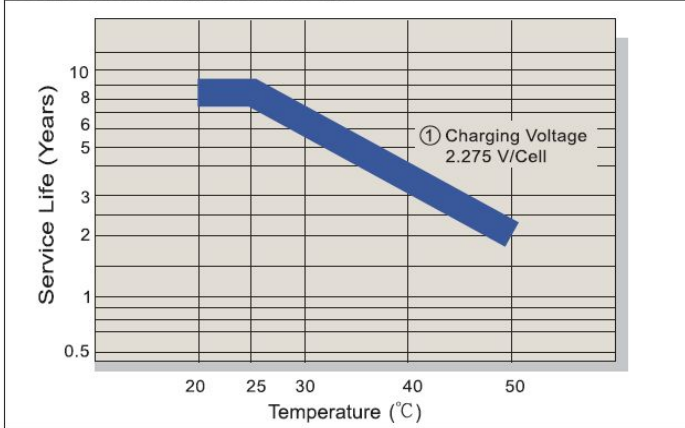
### Constant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	5min	8min	10min	15min	20min	30min	60min	90min
9.60	687.0	510.0	382.5	336.0	256.5	191.3	105.0	75.00
9.90	669.8	497.3	372.9	328.6	250.9	186.5	104.0	74.25
10.2	652.7	484.5	359.6	314.2	239.8	182.6	100.8	72.38
10.5	625.2	465.1	350.0	309.1	237.3	177.9	97.7	72.00
10.8	577.1	428.4	323.2	289.0	227.0	170.2	94.5	69.00

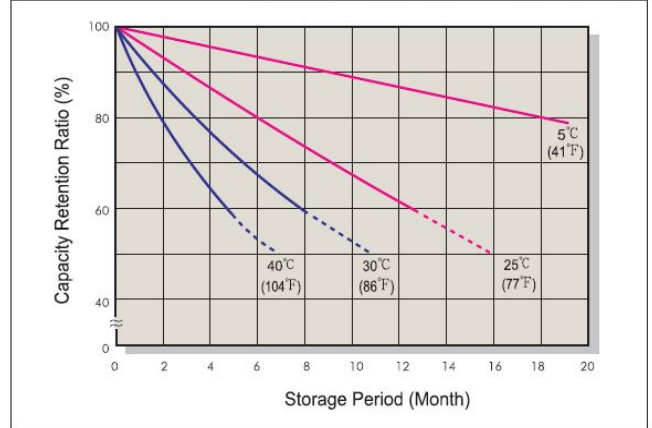
### Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	5min	8min	10min	15min	20min	30min	60min	90min
9.60	7440	5539	4406	3699	2893	2238	1241	891.0
9.90	7314	5445	4296	3707	2830	2182	1229	882.1
10.2	7205	5349	4142	3544	2705	2137	1191	859.8
10.5	6977	5191	4032	3487	2676	2081	1154	855.4
10.8	6579	4884	3723	3259	2561	1991	1117	819.7

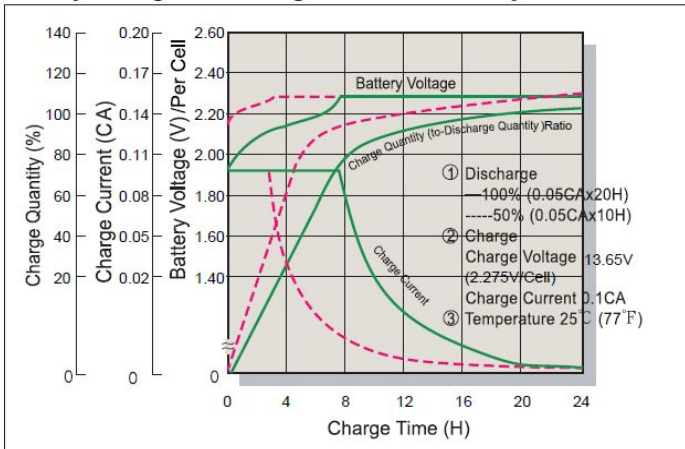
### Trickle (or Float) Service Life



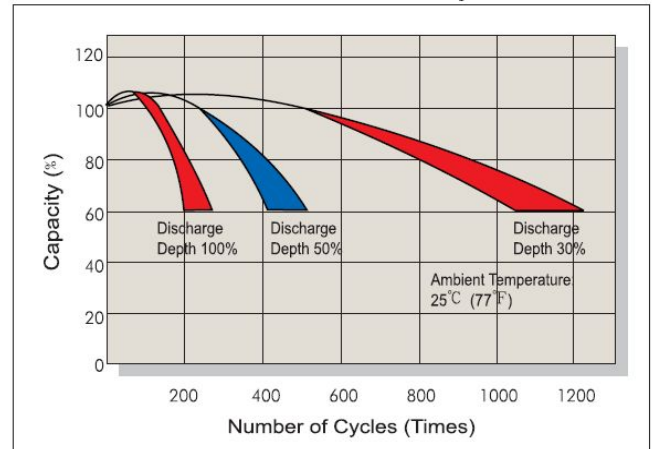
### Capacity Retention Characteristic



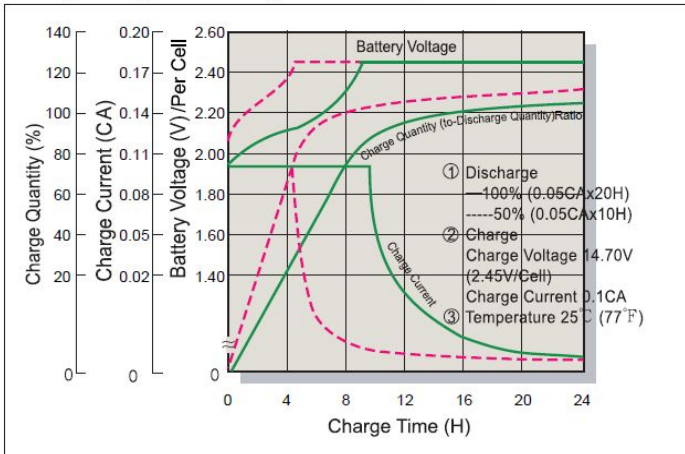
### Battery Voltage and Charge Time for Standby Use



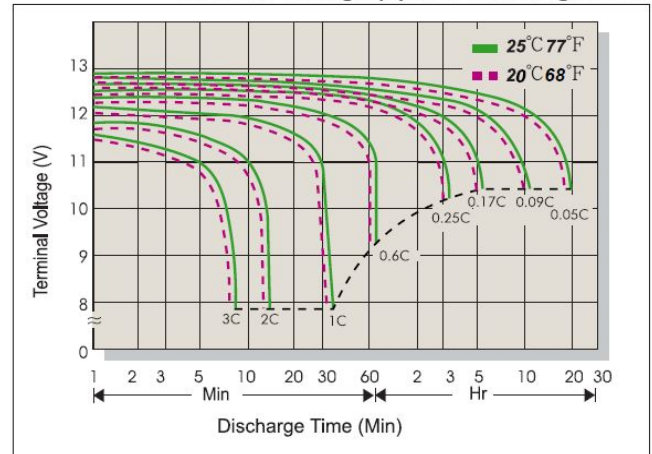
### Cycle Service Life



### 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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