



6FM150FR (12V150Ah)

LONGWAY® FR battery is a front terminal battery. 6FM150FR 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.



ISO 9001:2008 Standard



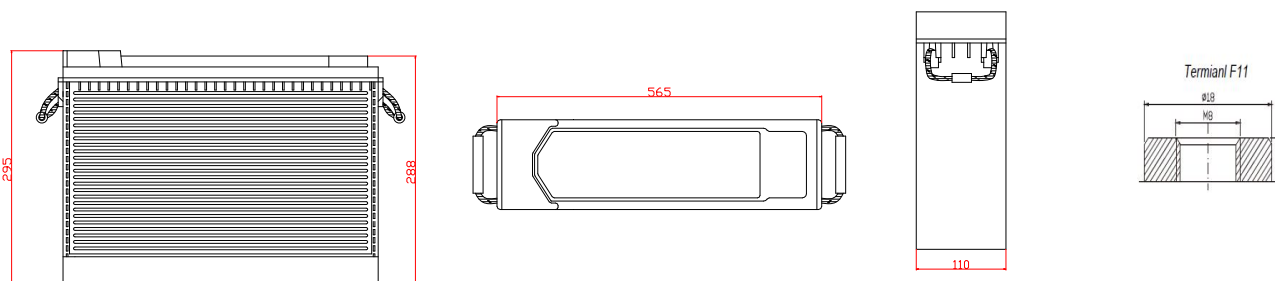
ISO 14001:2004 Standard



Specifications:

Cells per Unit	6
Normal Voltage	12V
Capacity	150Ah@10Hr-rate to 1.80V per cell@25°C
Weight	Approx(44.0±3%kg) (97.0lbs)
Maximum Discharge Current	1500A(5sec)
Internal Resistance	Approx. 4.0mΩ 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 F12
Container Material	ABS(UL94-HB) *Flammability resistance of (UL94-V0) can be available upon request

Dimensions: L565*W110*H288(TH295)



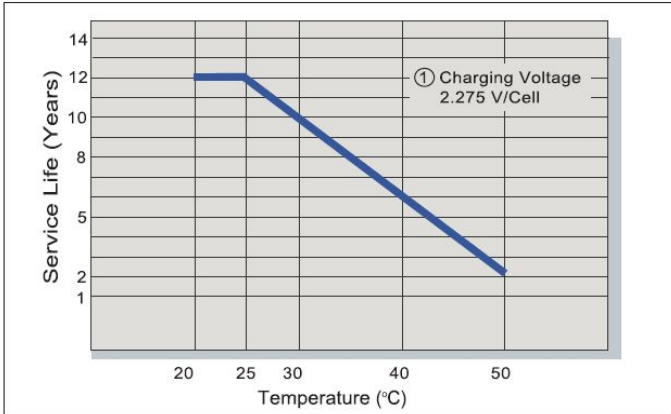
Constant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	420	302	263	170	97.5	58.7	40.3	27.4	18.4	15.2	8.0
9.90	407	292	257	166	95.6	58.4	40.1	27.3	18.2	15.2	8.0
10.2	399	286	252	163	93.6	57.6	39.8	27.0	18.1	15.1	7.9
10.5	386	277	244	158	90.7	57.0	39.4	26.7	18.0	15.0	7.9
10.8	328	269	239	155	88.9	56.4	39.0	26.5	17.9	15.0	7.9

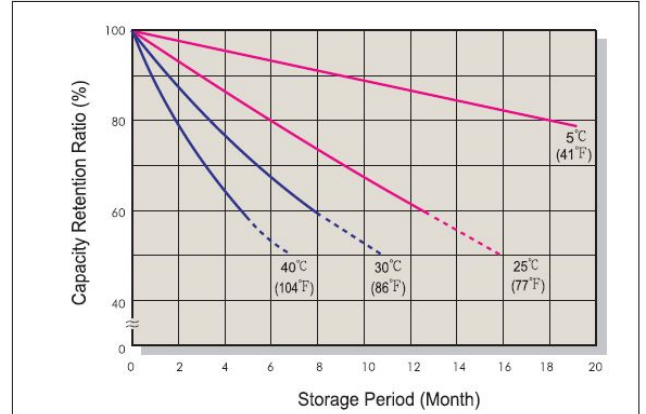
Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	4410	3256	2896	1932	1129	680	474	324	220	182	96
9.90	4278	3159	2838	1894	1089	677	472	322	218	181	95
10.2	4190	3093	2781	1855	1067	667	467	319	217	180	95
10.5	4057	2996	2694	1797	1034	660	463	316	216	180	95
10.8	3440	2908	2642	1762	1014	653	458	313	215	179	95

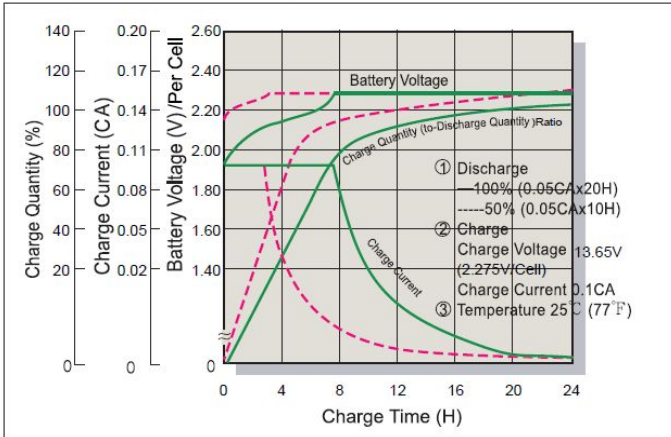
Trickle (or Float) Service Life



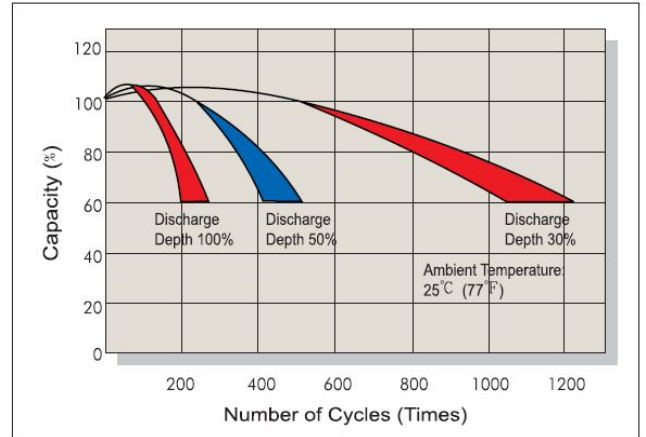
Capacity Retention Characteristic



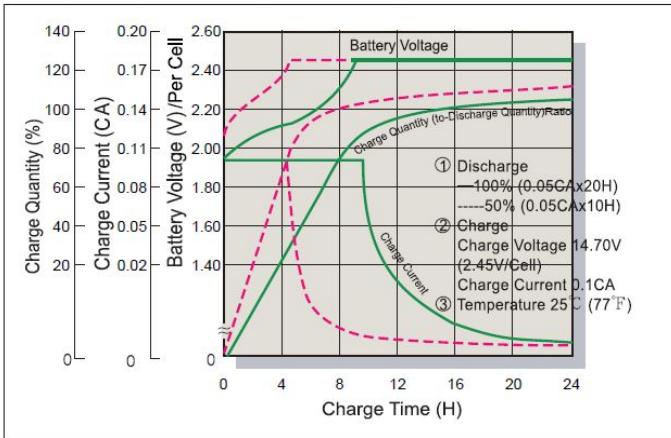
Battery Voltage and Charge Time for Standby Use



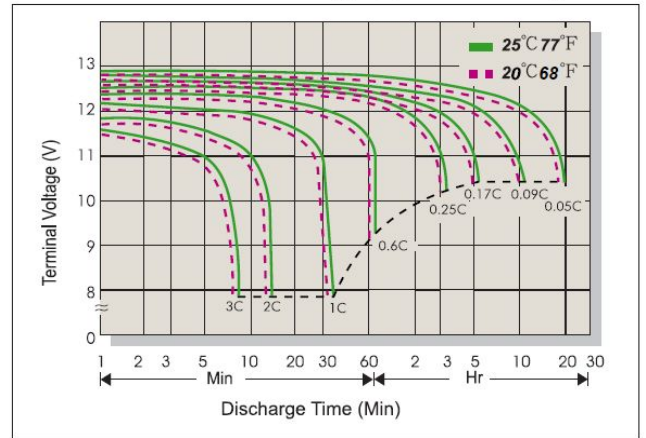
Cycle Service Life



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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