



6FM110FR (12V110Ah)

LONGWAY® FR battery is a front terminal battery. 6FM110FR 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



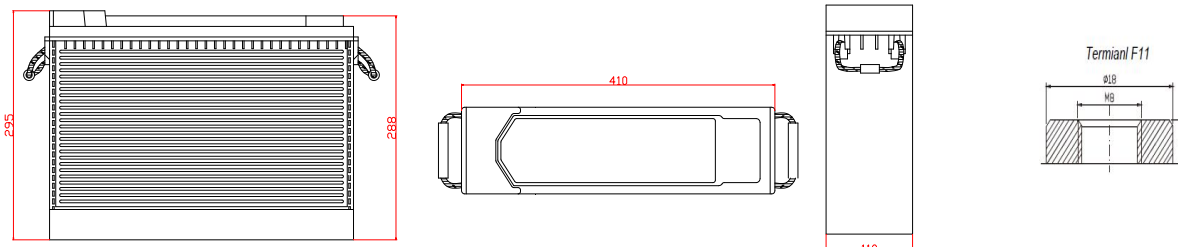
ISO 14001:2004 Standard



Specifications:

Cells per Unit	6
Normal Voltage	12V
Capacity	110Ah@10Hr-rate to 1.80V per cell@25°C
Weight	Approx(32.0±3%kg) (70.5lbs)
Maximum Discharge Current	1100A(5sec)
Internal Resistance	Approx. 4.5mΩ 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	27.50A
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 F12
Container Material	ABS(UL94-HB) *Flammability resistance of (UL94-V0) can be available upon request

Dimensions: L410*W110*H288(TH295)



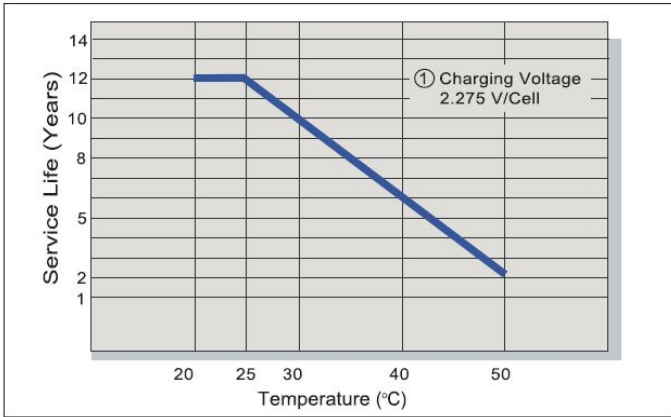
Constant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	308	221	193	124	71.5	43.1	29.6	20.1	13.5	11.2	5.9
9.90	299	214	189	122	70.1	42.9	29.4	20.0	13.3	11.1	5.8
10.2	293	210	185	119	68.6	42.2	29.2	19.8	13.3	11.1	5.8
10.5	283	203	179	116	66.5	41.8	28.9	19.6	13.2	11.0	5.8
10.8	240	197	176	113	65.2	41.4	28.6	19.4	13.1	11.0	5.8

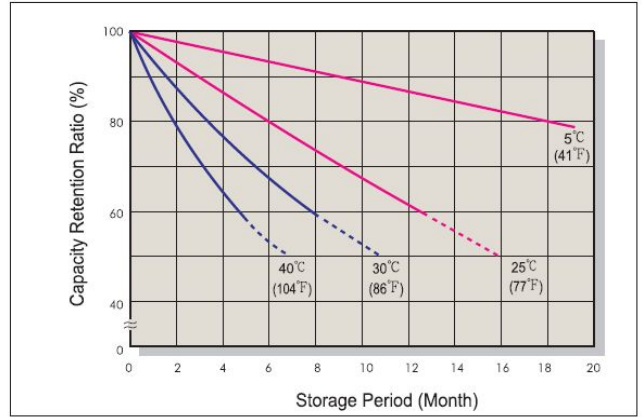
Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	3234	2388	2124	1417	828	499	348	238	162	133	70
9.90	3137	2316	2082	1389	799	496	346	236	160	133	70
10.2	3072	2268	2039	1360	782	489	343	234	159	132	70
10.5	2975	2197	1975	1318	758	484	339	232	158	132	69
10.8	2523	2132	1937	1292	743	479	336	229	157	131	69

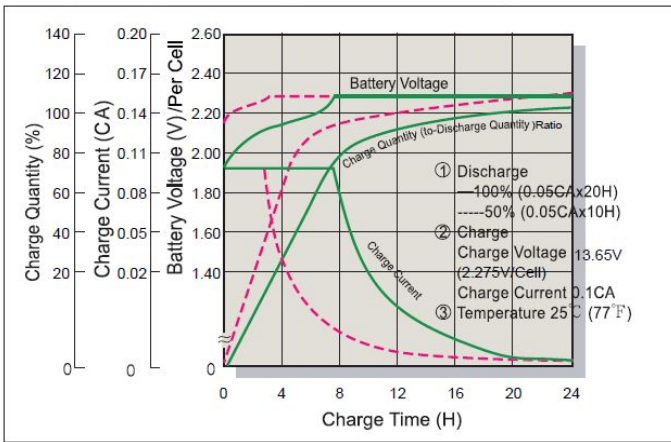
Trickle (or Float) Service Life



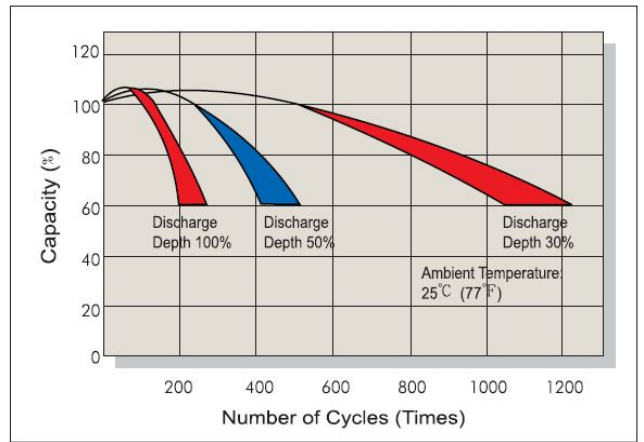
Capacity Retention Characteristic



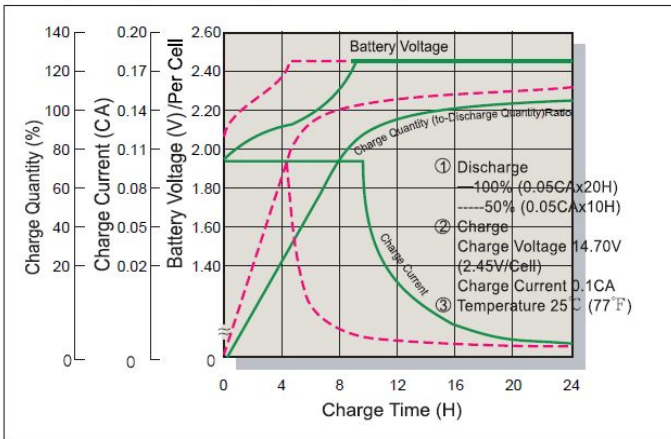
Battery Voltage and Charge Time for Standby Use



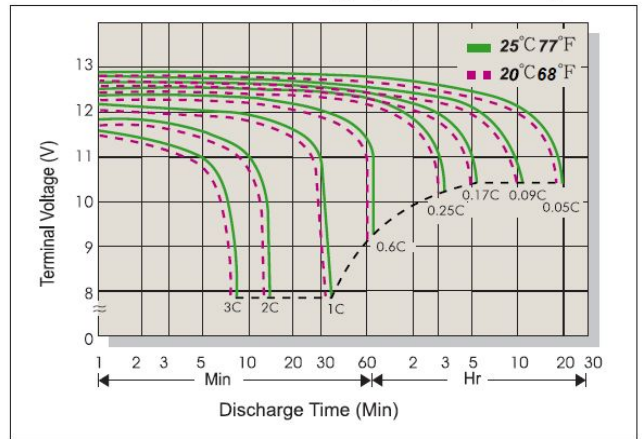
Cycle Service Life



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
		<0.5C	<1.0C	

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