



6FM105FR (12V105Ah)

LONGWAY® FR battery is a front terminal battery. 6FM105FR 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



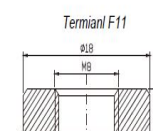
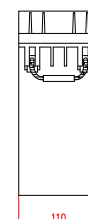
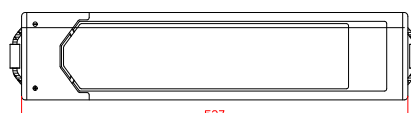
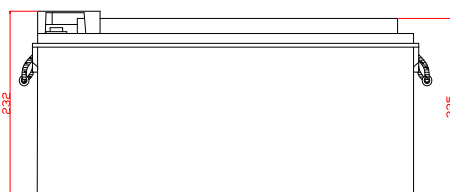
ISO 14001:2004 Standard



Specifications:

Cells per Unit	6
Normal Voltage	12V
Capacity	105Ah@10Hr-rate to 1.80V per cell@25°C
Weight	Approx(32.5±3%kg) (71.7lbs)
Maximum Discharge Current	1050A(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	26.25A
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: L527*W110*H225(TH232)



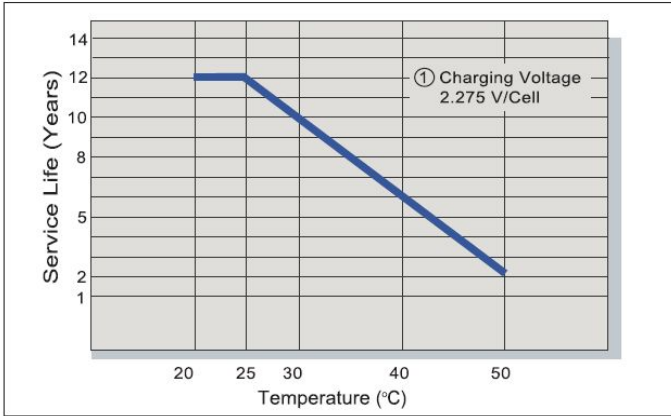
Constant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	294	211	184	119	68.3	41.1	28.2	19.2	12.9	10.7	5.6
9.90	285	205	180	116	66.9	40.9	28.1	19.1	12.7	10.6	5.6
10.2	279	200	176	114	65.5	40.3	27.8	18.9	12.7	10.6	5.5
10.5	270	194	171	110	63.5	39.9	27.5	18.7	12.6	10.5	5.5
10.8	229	188	168	108	62.2	39.5	27.3	18.5	12.5	10.5	5.5

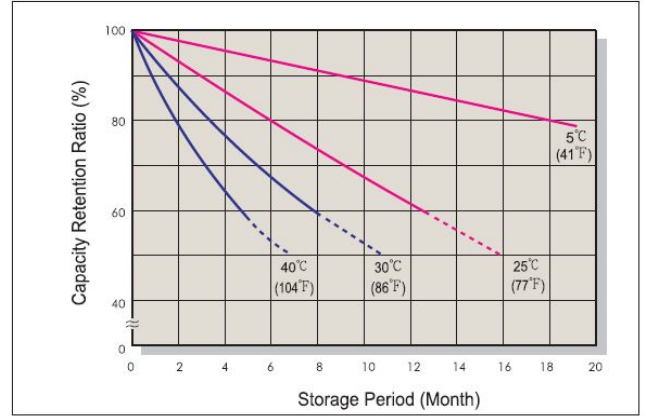
Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	3087	2279	2027	1353	790	476	332	227	154	127	67
9.90	2994	2211	1987	1326	762	474	330	226	153	127	67
10.2	2933	2165	1946	1299	747	467	327	223	152	126	67
10.5	2840	2097	1886	1258	724	462	324	221	151	126	66
10.8	2408	2035	1849	1234	710	457	321	219	150	125	66

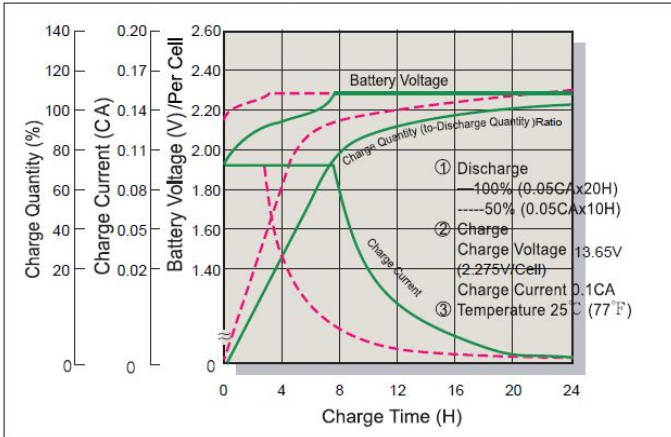
Trickle (or Float) Service Life



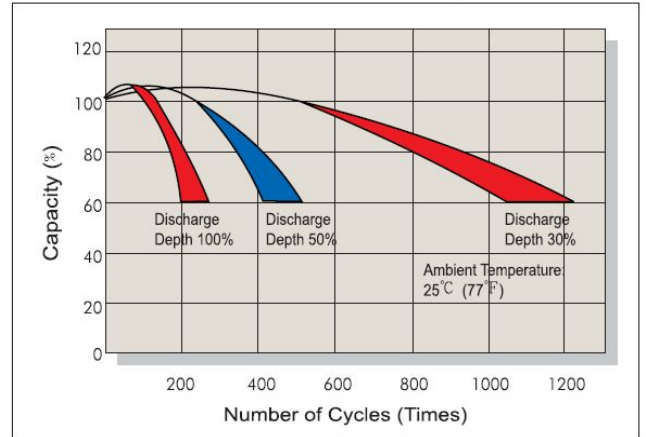
Capacity Retention Characteristic



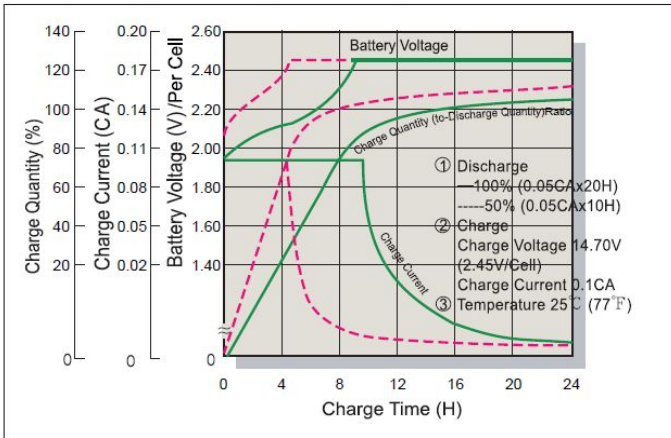
Battery Voltage and Charge Time for Standby Use



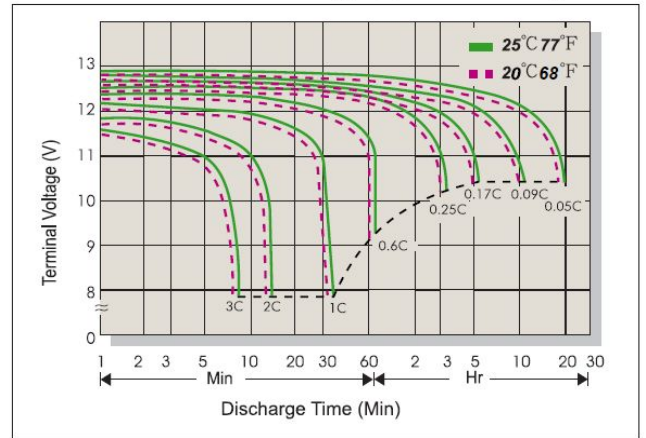
Cycle Service Life



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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