



6FM55FR (12V55Ah)

LONGWAY® FR battery is a front terminal battery. 6FM55FR 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.



Specifications:

Cells per Unit	6
Normal Voltage	12V
Capacity	55Ah@10Hr-rate to 1.80V per cell@25°C
Weight	Approx(18.0±3%kg) (39.7lbs)
Maximum Discharge Current	550A(5sec)
Internal Resistance	Approx. 6.4mΩ 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	13.75A
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 F10
Container Material	ABS(UL94-HB) *Flammability resistance of (UL94-V0) can be available upon request



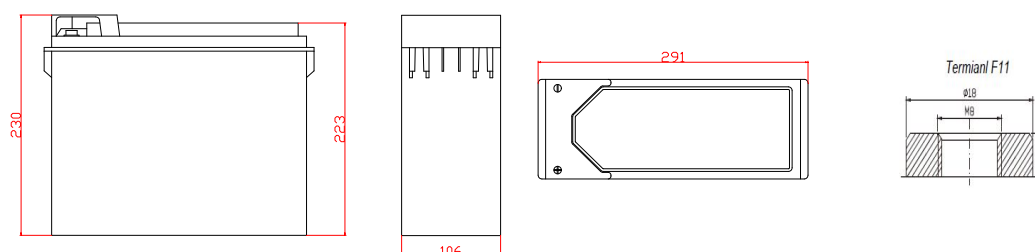
ISO 9001:2008 Standard



ISO 14001:2004 Standard



Dimensions: L291*W106*H223(TH230)



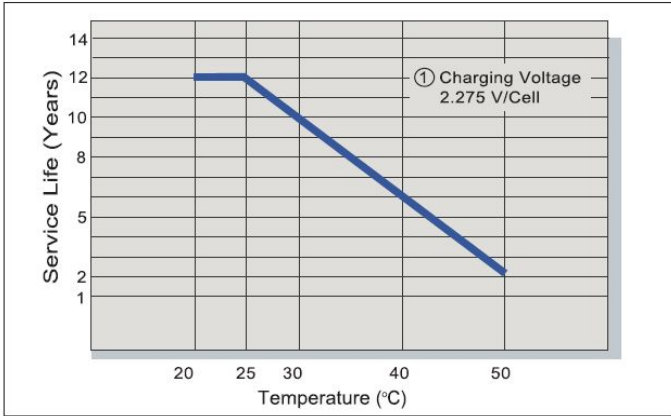
Constant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	154	111	96	62	35.8	21.5	14.8	10.0	6.7	5.6	2.9
9.90	149	107	94	61	35.0	21.4	14.7	10.0	6.7	5.6	2.9
10.2	146	105	92	60	34.3	21.1	14.6	9.9	6.6	5.5	2.9
10.5	142	102	90	58	33.2	20.9	14.4	9.8	6.6	5.5	2.9
10.8	120	99	88	57	32.6	20.7	14.3	9.7	6.6	5.5	2.9

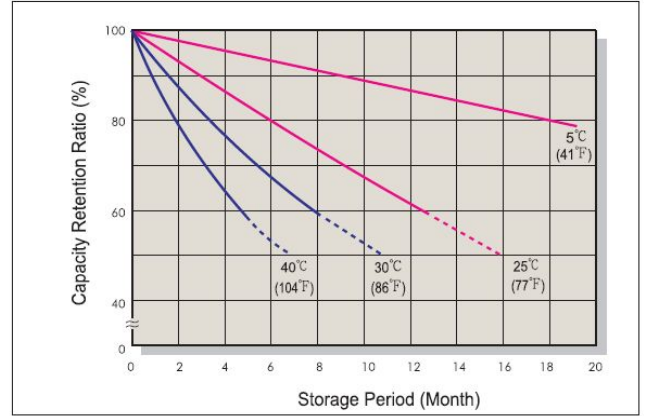
Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	1617	1194	1062	709	414	249	174	119	81	67	35
9.90	1568	1158	1041	694	399	248	173	118	80	66	35
10.2	1536	1134	1020	680	391	244	171	117	80	66	35
10.5	1488	1098	988	659	379	242	170	116	79	66	35
10.8	1261	1066	969	646	372	240	168	115	63	66	35

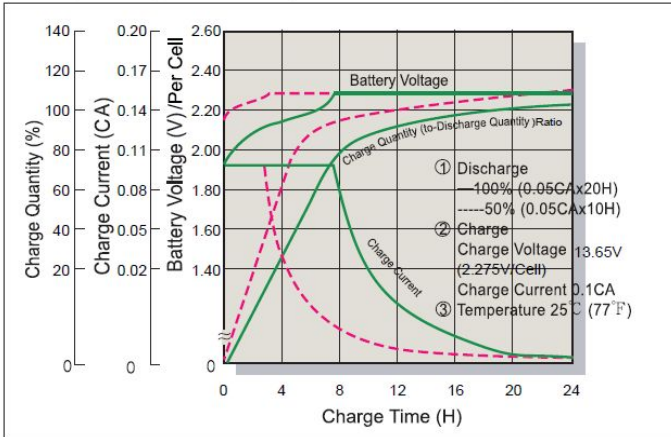
Trickle (or Float) Service Life



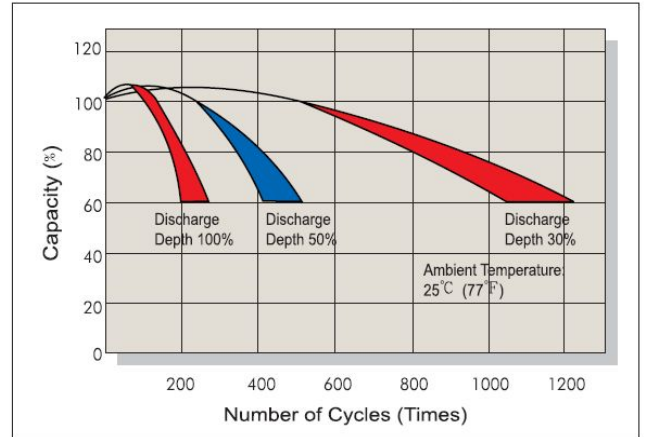
Capacity Retention Characteristic



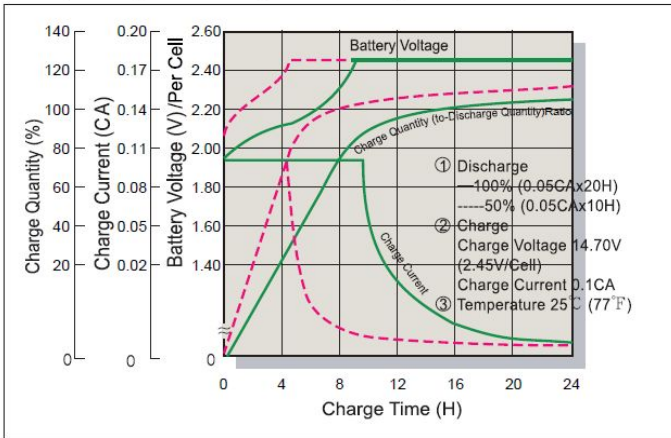
Battery Voltage and Charge Time for Standby Use



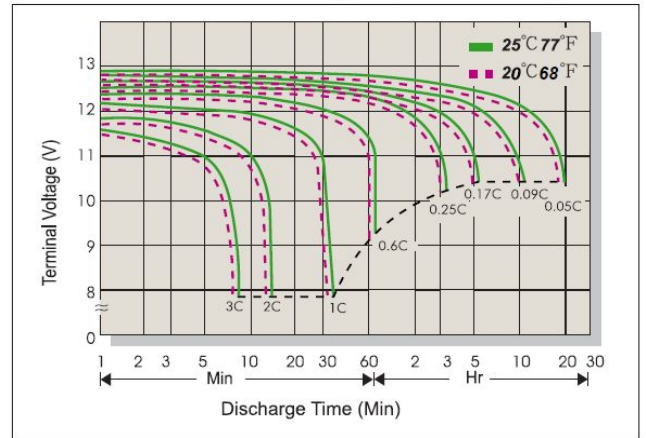
Cycle Service Life



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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