

12FM5 (24V5Ah)



LONGWAY® Standard battery is design for a general purpose by KaiYing Power. 12FM5 is a general purpose battery up to 5 years in star service or more than 260 cycles at 100% discharge in cycle service. As with all **LONGWAY®** batteries, all are rechargeable highly efficient, leak proof and maintenance free.

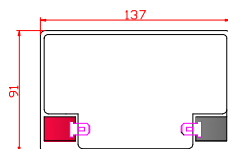
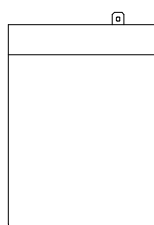
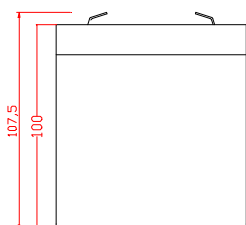


Specifications:

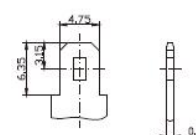
Cells per Unit	12
Normal Voltage	24V
Capacity	5Ah@20Hr-rate to 1.75V per cell@25°C
Weight	Approx.(3.05±3%)kg (6.72lbs)
Maximum Discharge Current	50A(5sec)
Internal Resistance	Approx. 55mΩ full charged @25°C
Operating Temperature Range	Discharge: -15°C~50°C Charge: -15°C~60°C Storage: -15°C~60°C
Nominal Operating Temperature Range	25°C±3°C
Float Charging Voltage	27.4~27.9VDC/unit Average @25°C
Maximum Charging Current	1.50A
Equalization and Cycle Service	28.8V~30.0VDC/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	F1(0.187)/F2(0.250)
Container Material	ABS(UL94-HB) *Flammability resistance of (UL94-V0) can be available upon request



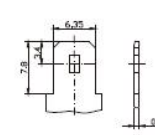
Dimensions: L137*W91*H101(TH107)mm



Terminal F1



Terminal F2



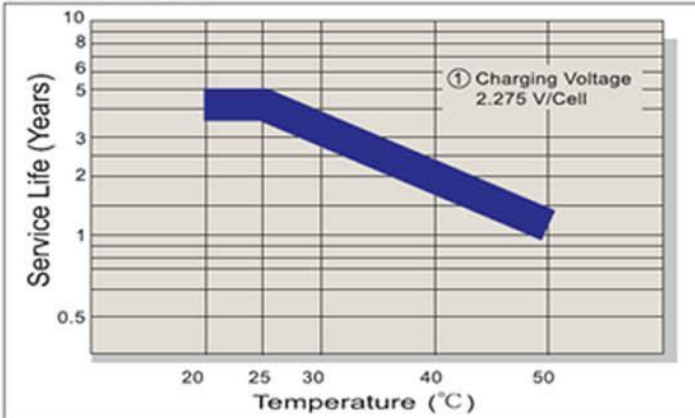
Constant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
19.20	19.8	12.5	9.88	5.72	3.30	1.84	1.58	0.92	0.58	0.49	0.26
19.80	19.2	12.1	9.63	5.58	3.22	1.83	1.57	0.92	0.58	0.48	0.26
20.40	18.8	11.9	9.48	5.49	3.17	1.82	1.55	0.91	0.57	0.48	0.26
21.00	18.0	11.4	9.19	5.32	3.07	1.80	1.54	0.90	0.57	0.48	0.26
21.60	17.6	11.1	9.01	5.22	3.01	1.78	1.52	0.89	0.56	0.48	0.26

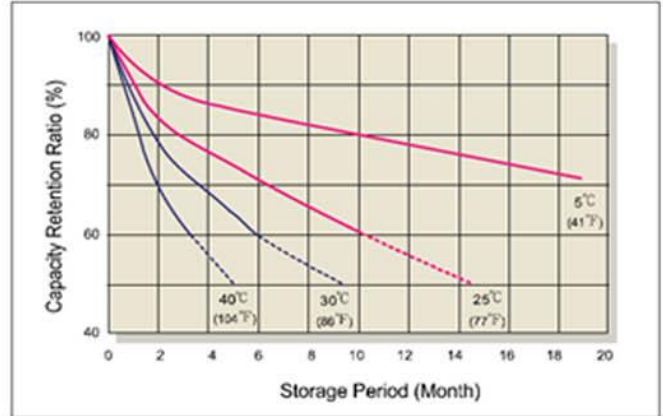
Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
19.20	427	274	218	131	75.7	42.9	36.7	21.8	13.8	11.7	6.33
19.80	414	266	213	128	74.6	42.6	36.9	21.7	13.7	11.6	6.30
20.40	405	260	209	126	73.4	42.4	36.6	21.5	13.6	11.6	6.28
21.00	388	249	203	122	71.1	41.9	36.2	21.3	13.5	11.5	6.25
21.60	381	245	199	120	69.7	41.5	35.8	21.1	13.3	11.5	6.24

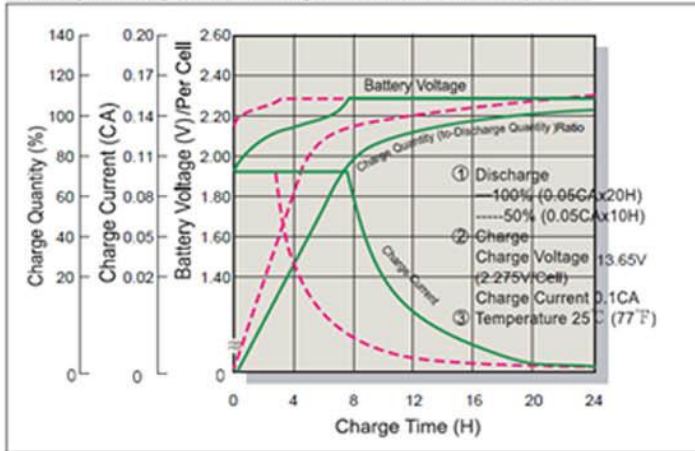
Float Service Life



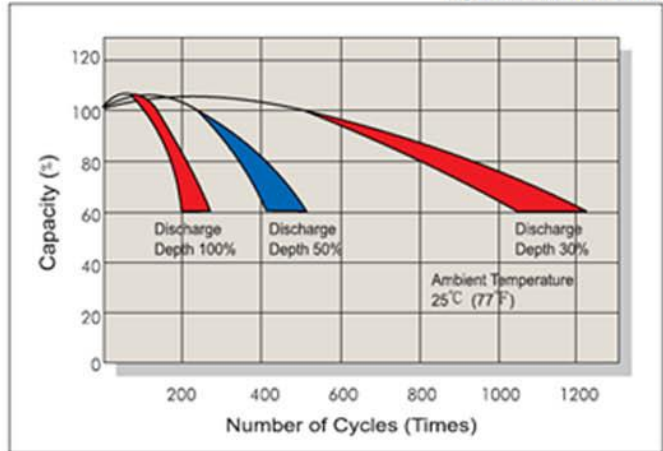
Capacity Retention Characteristic



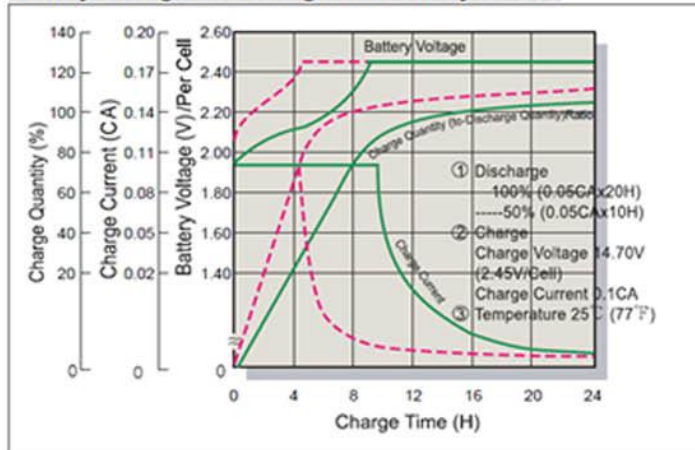
Battery Voltage and Charge Time for Standby use



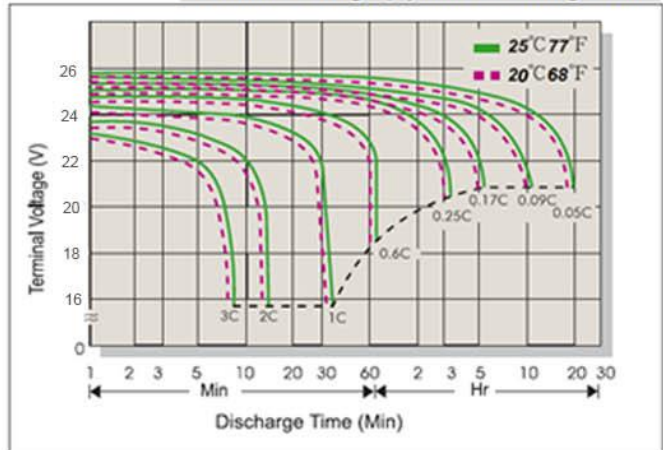
Cycle Service Life



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	0.3C
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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