

12FM5H (24V5Ah)



LONGWAY® 12FM5H specially designed for high efficient discharge application. Its characteristics are high energy density, small footprint and high discharge efficiency. It can be used for more than 260 cycles at 100% discharge in cycle service, up to 10 year in standy service. As with all **LONGWAY®** batteries, all are rechargeable highly efficient, leak proof an maintenance free.



Specifications:

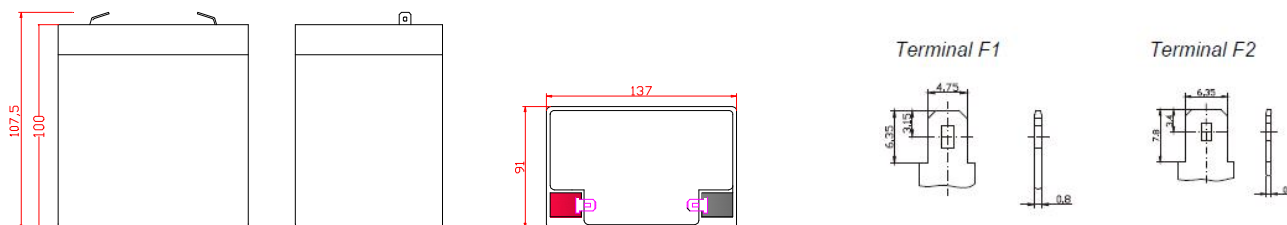
Cells per Unit	12
Normal Voltage	24V
Capacity	5Ah@20Hr-rate to 1.75V per cell@25°C
Weight	Approx (.3.0±3%)kg (7.275lbs)
Maximum Discharge Current	50A(5sec)
Internal Resistance	Approx. 28mΩ full charged @25°C
Operating Temperature Range	Discharge: -15°C~50°C Charge: -15°C~40°C Storage: -15°C~40°C
Nominal 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



ISO 14001:2004 Standard



Dimensions: L137*W91*H101(TH107)mm



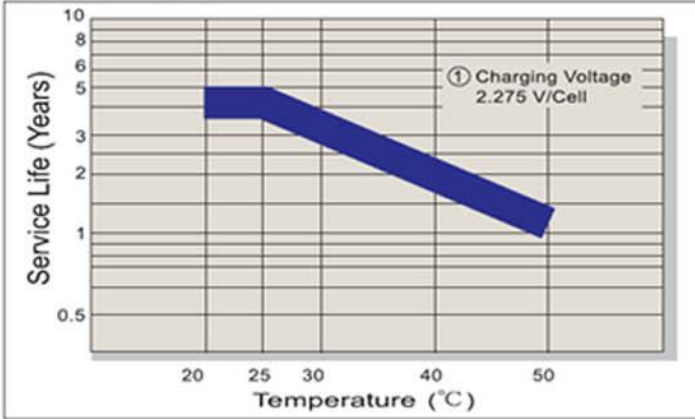
Constant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
19.20	20.14	12.72	10.07	5.83	3.37	1.88	1.61	0.94	0.59	0.49	0.27
19.80	19.54	12.34	9.82	5.68	3.28	1.86	1.60	0.94	0.59	0.49	0.27
20.40	19.13	12.08	9.67	5.60	3.23	1.86	1.58	0.93	0.58	0.49	0.27
21.00	18.33	11.58	9.37	5.42	3.13	1.84	1.57	0.92	0.58	0.49	0.27
21.60	17.99	11.36	9.18	5.32	3.07	1.82	1.55	0.91	0.57	0.49	0.27

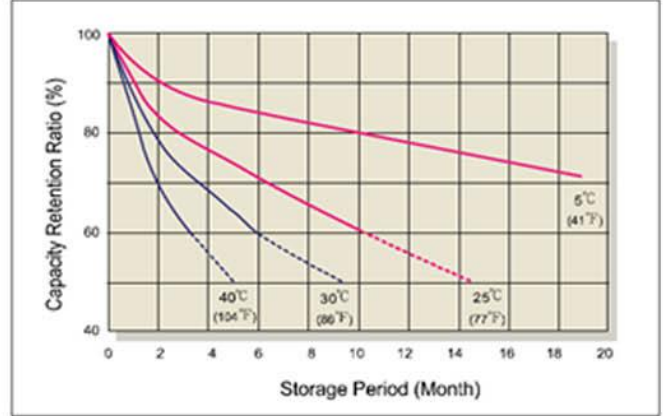
Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
19.20	435	279	222	133.6	77.1	43.7	37.45	22.3	14.06	11.88	6.46
19.80	422	271	216.8	130.3	76.0	43.4	37.64	22.1	13.99	11.82	6.42
20.40	413	265	213.5	128.3	74.8	43.2	37.27	21.93	13.85	11.77	6.40
21.00	396	254	206.8	124.3	72.5	42.8	36.90	21.71	13.71	11.73	6.37
21.60	388	249	202.8	121.9	71.1	42.3	36.53	21.49	13.58	11.70	6.36

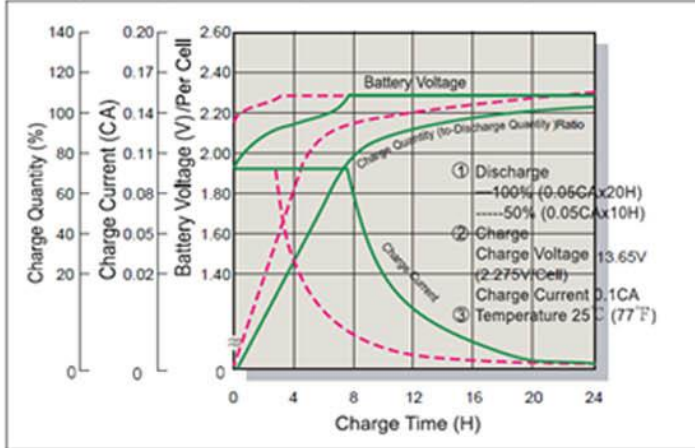
Float Service Life



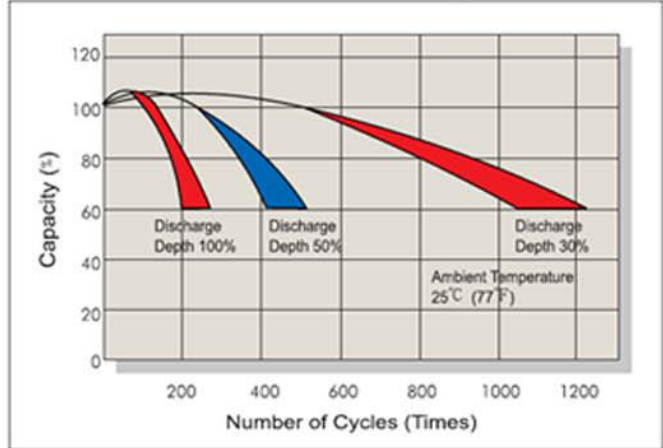
Capacity Retention Characteristic



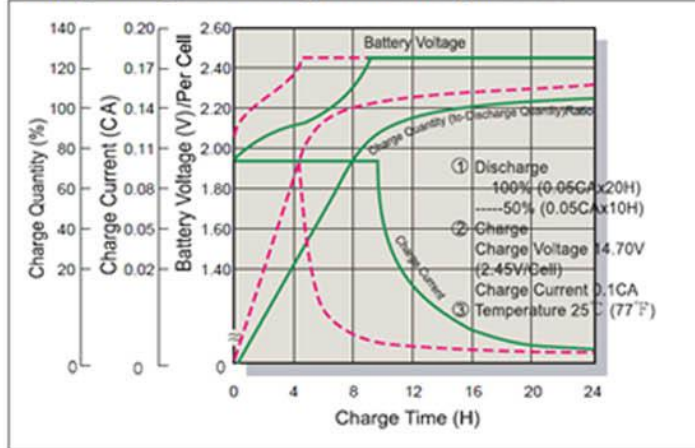
Battery Voltage and Charge Time for Standby use



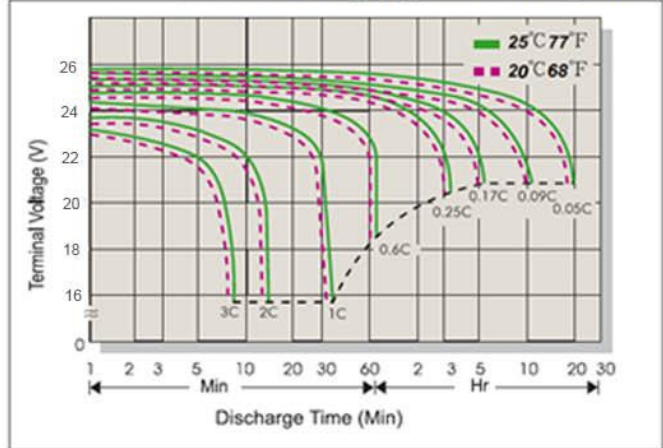
Cycle Service Life



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

KaiYing Power Supply & Electrical Equip Co., Ltd.

Address: KaiYing Industrial Park, ChengXiang Town, Anxi, Quanzhou, Fujian China

Tel: 86-595-68782266 Fax: 86-0595-68782222

Website: www.longwaybattery.com Email: Sales@longwaybattery.com