



6FM8 (12V8Ah)

LONGWAY® Standard battery is design for a general purpose by KaiYing Power. 6FM8 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.







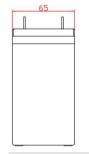


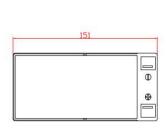


Specifications:

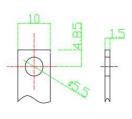
Cells per Unit	6				
Normal Voltage	12V				
Capacity	8Ah@20Hr-rate to 1.75V per cell@25℃				
Weight	Approx.(2.25 ± 3%)kg (4.96lbs)				
Maximum Discharge Current	80A(5sec)				
Internal Resistance	Approx. 25mΩ full charged @25℃				
Operating Temperature Range	Discharge: -20 °C ~60 °C				
	Charge: 0℃~50℃				
	Storage: -20℃~60℃				
Nominal Operating Temperature Range	25℃±3℃				
Float Charging Voltage	13.7~13.9VDC/unit Average @25℃				
Maximum Charging Current	2.4A				
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℃. 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: L151*W65*H94(TH106)









Constant Current Discharge Characteristics (A, 25 ℃)

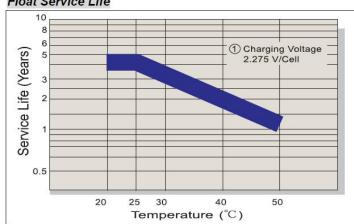
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	31.9	20.0	15.3	8.93	5.53	3.02	2.16	1.47	0.95	0.78	0.43
9.90	30.9	19.4	14.9	8.70	5.39	3.00	2.15	1.46	0.94	0.78	0.43
10.2	30.3	19.0	14.7	8.57	5.30	2.98	2.13	1.45	0.93	0.77	0.43
10.5	29.3	18.4	14.2	8.30	5.14	2.95	2.10	1.43	0.94	0.77	0.43
10.8	28.5	17.8	14.0	8.14	5.04	2.92	2.08	1.42	0.93	0.77	0.43

Constant Power Discharge Characteristics (Watt, 25 $^{\circ}$ C)

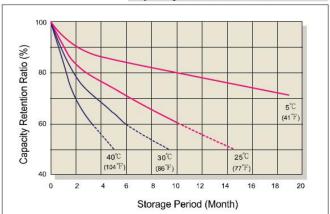
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	346	225	174	102	64.0	35.3	25.6	17.5	11.4	9.32	5.18
9.90	345	219	170	100	62.4	35.2	25.5	17.4	11.3	9.33	5.18
10.2	338	214	167	98	61.4	34.8	25.2	17.3	11.2	9.24	5.13
10.5	327	207	162	95	59.5	34.5	25.0	17.1	11.2	9.21	5.12
10.8	318	201	159	93	58.3	34.1	24.7	16.9	11.1	9.18	5.10



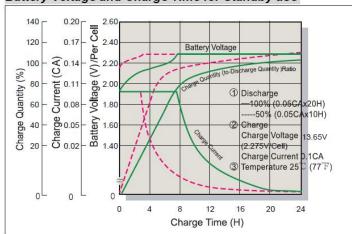
Float Service Life



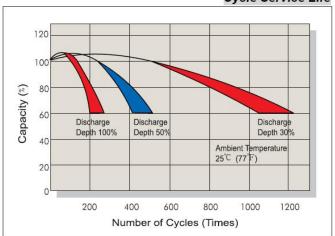
Capacity Retention Characteristic



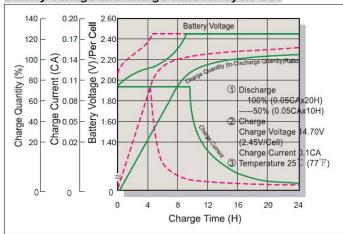
Battery Voltage and Charge Time for Standby use



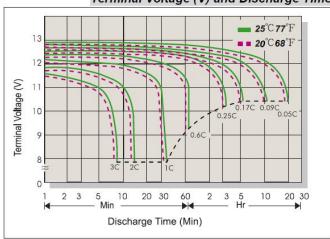
Cycle Service Life



Battery Voltage and Charge Time for Cycle Use



Terminal Voltage (V) and Discharge Time



Charging Procedures

Application	CI	Max. Charge		
	Temperature	Set Point	Allowable Range	Current
Cycle Use	25°C(77°F)	2.45	2.40~2.50	0.00
Standby	25°C(77°F)	2.275	2.25~2.30	0.3C

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.75	1.70	1.65	1.60
Discharge	0.20>(4)	0.2C<(A)	0.5C<(A)	(A)>1.0C
Current (A)	0.2C>(A)	<0.5C	<1.0C	(A)>1.0C

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