



6FM38A/G (12V38Ah)

LONGWAY® Standard battery is design for a general purpose by KaiYing Power. 6FM 38G is a general purpose battery up to 8 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.



ISO 9001:2008 Standard



ISO 14001:2004 Standard



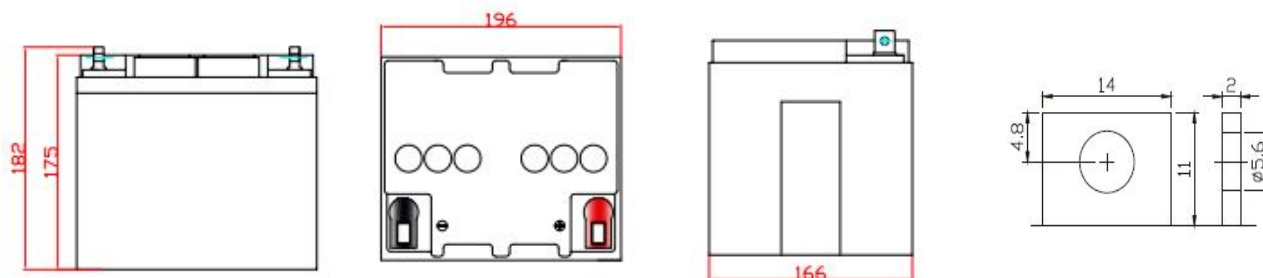
MH46789



Specifications:

Cells per Unit	6
Normal Voltage	12V
Capacity	38Ah@10Hr-rate to 1.80V per cell@25°C
Weight	Approx.(12.5±3%) kg (27.56lbs)
Maximum Discharge Current	380A(5sec)
Internal Resistance	Approx. 8.3mΩ 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	9.5A
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 F7/F21
Container Material	ABS(UL94-HB) *Flammability resistance of (UL94-V0) can be available upon request

Dimensions: L196*W166*H176(TH182)mm



Constant Current Discharge Characteristics (A, 25 °C)

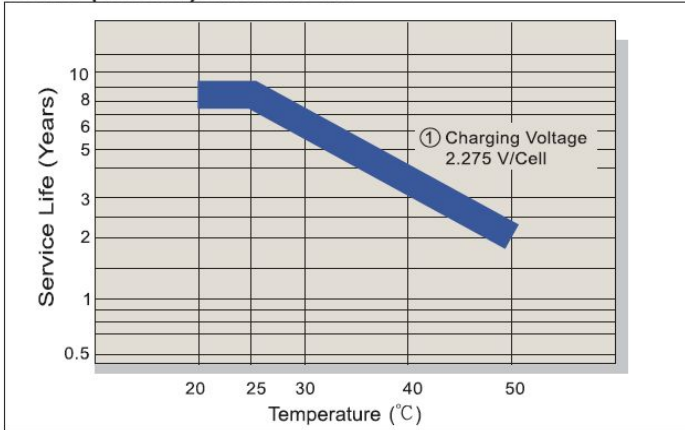
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	113	93	73	44.7	24.7	14.8	11.2	7.2	4.63	3.86	2.02
9.90	110	91	72	43.8	24.2	14.8	11.1	7.1	4.61	3.84	2.01
10.2	108	89	70	42.9	23.7	14.6	11.0	7.1	4.59	3.82	2.01
10.5	101	86	68	41.5	23.0	14.5	10.9	7.0	4.57	3.81	2.00
10.8	93	83	67	40.7	22.5	14.3	10.8	6.9	4.56	3.80	2.00

Constant Power Discharge Characteristics (Watt, 25 °C)

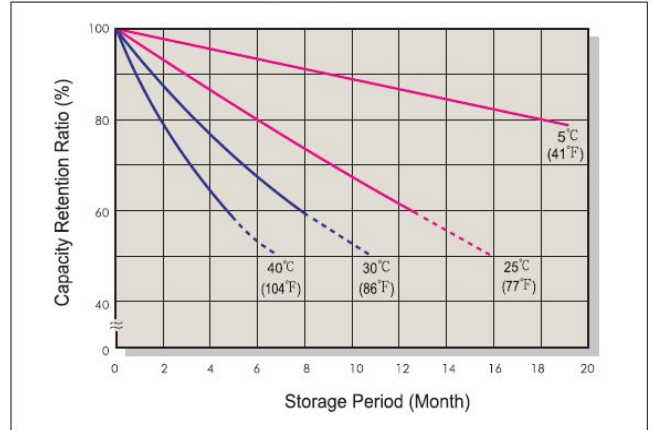
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	1223	1021	815	501	282	172	132	85	55.5	46.1	24.3
9.90	1186	990	790	491	276	171	131	84	55.3	45.8	24.2
10.2	1162	970	774	481	270	169	130	84	55.0	45.6	24.1
10.5	1095	939	750	466	262	168	128	83	54.9	45.5	24.0

10.8	1003	912	735	457	257	166	127	82	54.7	45.4	23.9
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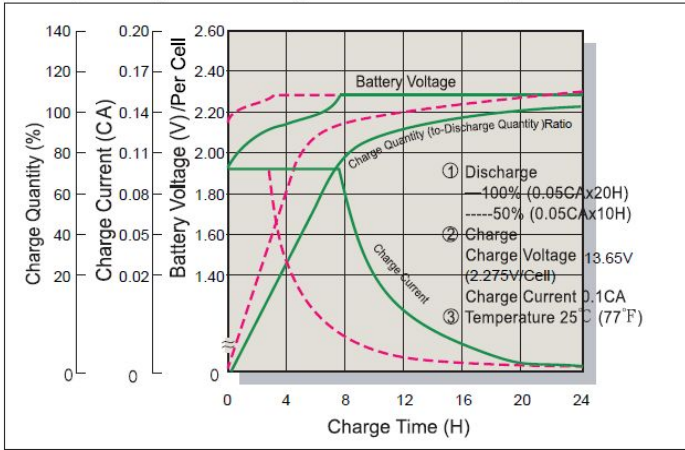
Trickle (or Float) Service Life



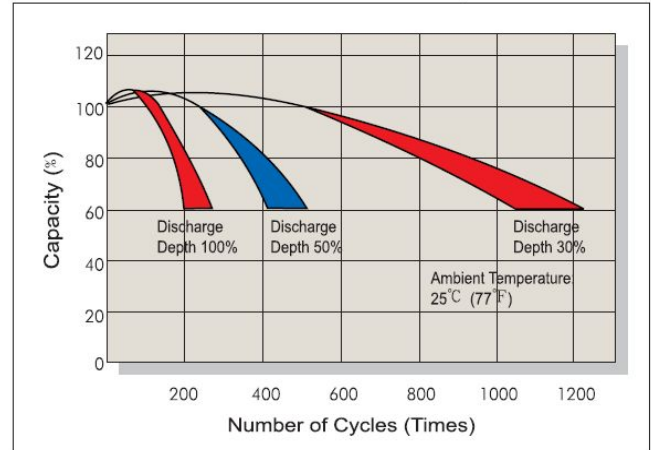
Capacity Retention Characteristic



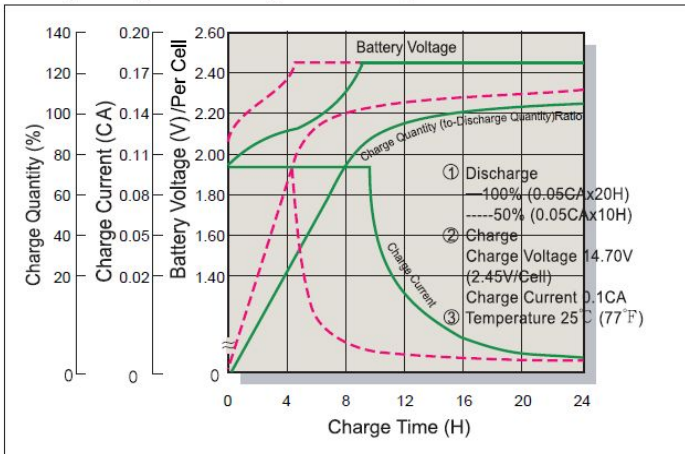
Battery Voltage and Charge Time for Standby Use



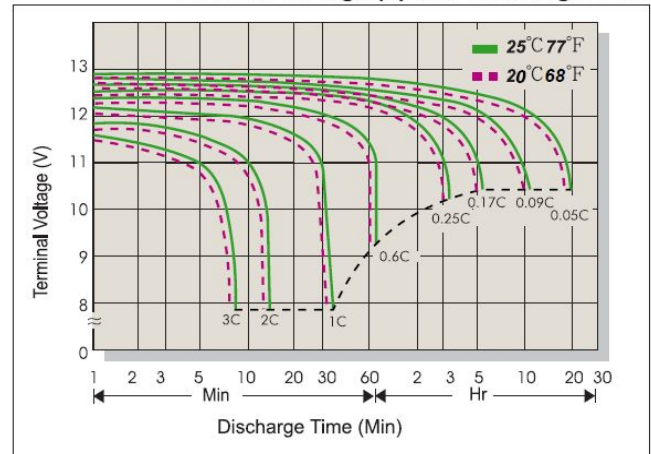
Cycle Service Life



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	0.25C
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
		<0.5C	<1.0C	

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