



6FM40C/G (12V40Ah)

LONGWAY® Standard battery is design for a general purpose by KaiYing Power. 6FM40G 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



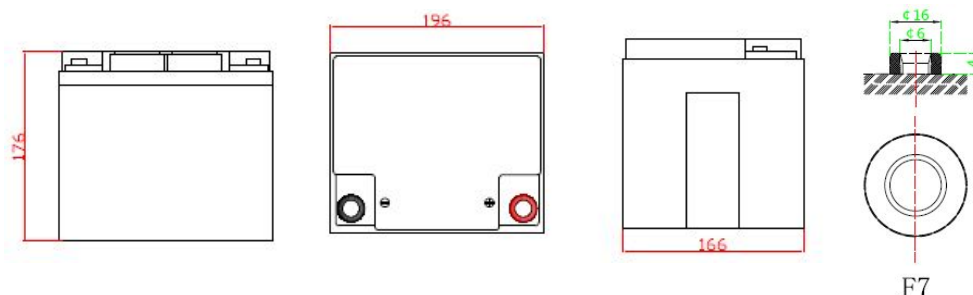
ISO 14001:2004 Standard



Specifications:

Cells per Unit	6
Normal Voltage	12V
Capacity	40Ah@10Hr-rate to 1.80V per cell@25°C
Weight	Approx.(12.2±3%) kg (26.90lbs)
Maximum Discharge Current	400A(5sec)
Internal Resistance	Approx. 8mΩ 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	13.7~13.9VDC/unit Average @25°C
Maximum Charging Current	12A
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(TH176)mm



F7

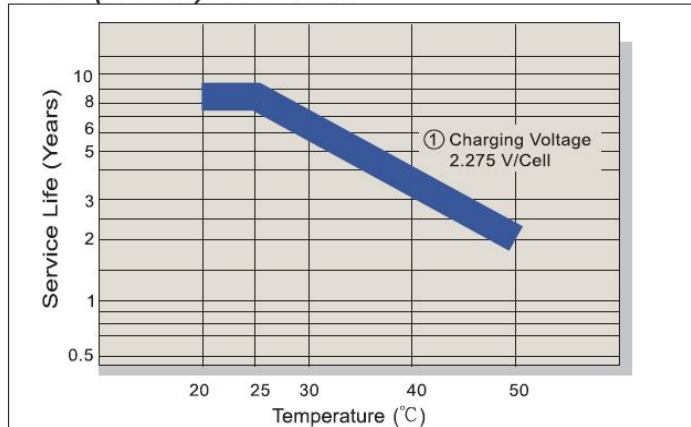
Constant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	112	92	73	44.2	24.4	14.7	11.1	7.1	4.58	3.82	2.00
9.90	109	90	71	43.3	24.0	14.6	11.0	7.1	4.56	3.80	1.99
10.2	106	88	70	42.4	23.5	14.5	10.9	7.0	4.54	3.78	1.99
10.5	100	85	68	41.1	22.7	14.3	10.8	6.9	4.53	3.77	1.98
10.8	92	83	66	40.3	22.3	14.2	10.7	6.9	4.51	3.76	1.97

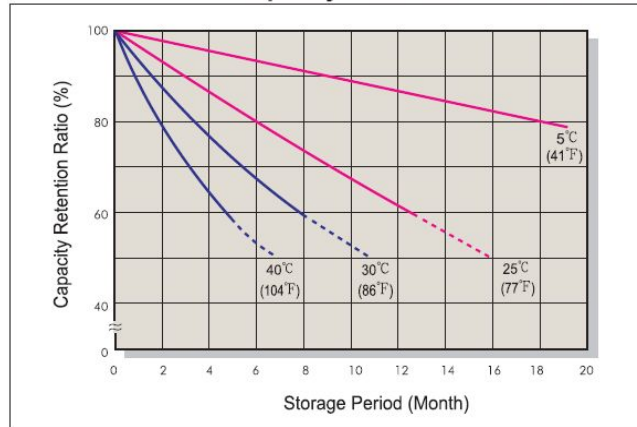
Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	1210	1010	806	496	279	170	130	84	55.0	45.6	24.0
9.90	1174	980	782	486	273	169	130	83	54.7	45.3	23.9
10.2	1150	960	766	476	267	168	128	83	54.5	45.2	23.8
10.5	1083	929	742	461	259	166	127	82	54.3	45.0	23.8
10.8	992	902	727	452	254	164	126	81	54.1	44.9	23.7

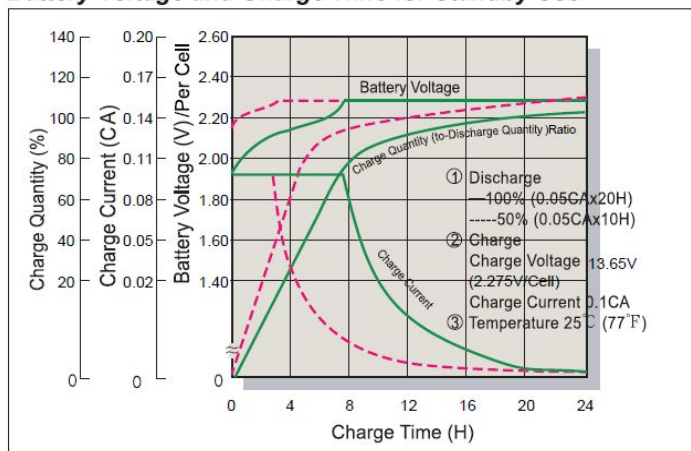
Trickle (or Float) Service Life



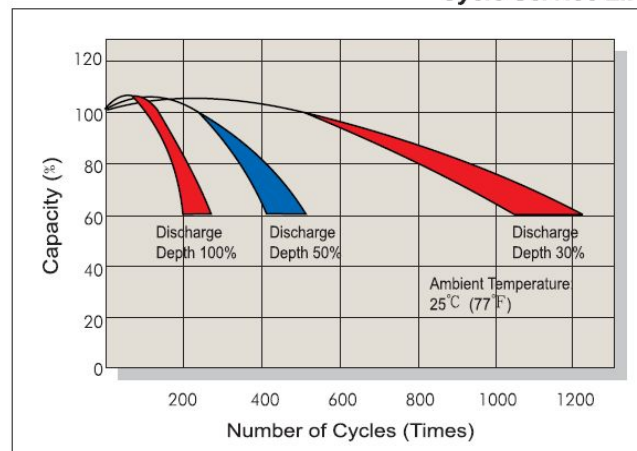
Capacity Retention Characteristic



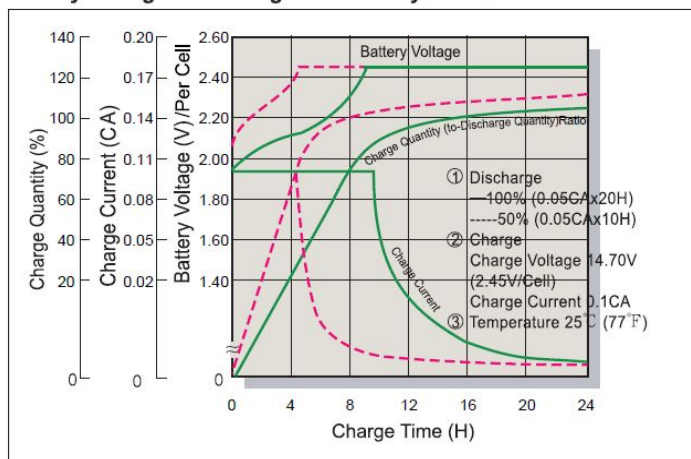
Battery Voltage and Charge Time for Standby Use



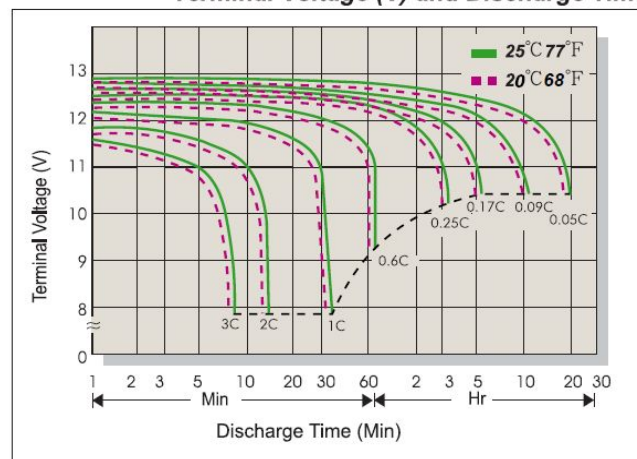
Cycle Service Life



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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