



3FM4.2 (6V4.2Ah)

LONGWAY® Standard battery is design for a general purpose by KaiYing Power. 3FM4.2 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.



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ISO 9001:2008 Standard

ISO 14001:2004 Standard

MH46789

CE

Specifications:

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Cells per Unit	3
Normal Voltage	6V
Capacity	4.2Ah@20Hr-rate to 1.75V per cell@25℃
Weight	Approx.(0.72±3%)kg(1.59lbs)
Maximum Discharge Current	50A(5sec)
Internal Resistance	Approx. 25m Ω full charged @25°C
Operating Temperature Range	Discharge: -20℃~60℃
	Charge: 0℃~50℃
	Storage: -20°C~60°C
Nominal Operating Temperature Range	25℃±3℃
Float Charging Voltage	6.75~6.90VDC/unit Average @25℃
Maximum Charging Current	1.26A
Equalization and Cycle Service	7.20V~7.50VDC/unit Average @ 25°C
Self Discharge	LONGWAY Valve Regulated Lead Acid (VRLA) batteries can be stored
	for more than 6 months at 25 $^\circ\!\mathbb{C}$. 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: L70*W47*H99(TH105)mm





Terminal F1

Terminal F2



F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
4.80	18.7	12.67	9.81	4.84	2.86	1.61	1.21	0.76	0.49	0.42	0.22
4.95	18.1	12.29	9.52	4.69	2.77	1.59	1.19	0.75	0.49	0.41	0.22
5.10	17.8	12.04	9.42	4.65	2.75	1.58	1.19	0.75	0.49	0.41	0.22
5.25	17.2	11.66	9.03	4.45	2.63	1.57	1.18	0.74	0.48	0.41	0.22
5.40	16.7	11.32	8.95	4.41	2.61	1.55	1.16	0.73	0.48	0.41	0.22

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
4.80	104.3	71.5	55.9	27.7	16.6	9.41	7.16	4.53	2.95	2.49	1.34
4.95	101.2	69.3	54.3	26.9	16.1	9.31	7.09	4.49	2.93	2.48	1.33
5.10	99.1	67.9	53.7	26.6	15.9	9.27	7.06	4.47	2.92	2.47	1.33
5.25	96.0	65.8	51.5	25.5	15.2	9.17	6.99	4.42	2.91	2.46	1.32
5.40	93.2	63.8	51.0	25.3	15.1	9.08	6.92	4.38	2.90	2.46	1.32



Capacity Retention Characteristic



Battery Voltage and Charge Time for Standby use



Battery Voltage and Charge Time for Cycle Use



Charging Procedures

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



Cycle Service Life



Terminal Voltage (V) and Discharge Time



Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.75	1.70	1.65	1.60
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Discharge	0.202(A)	0.2C<(A)	0.5C<(A)	(4)>1.00
Current (A)	0.20-(A)	<0.5C	<1.0C	(A)>1.0C

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