



6FM100S (12V100Ah)

LONGWAY® 6FM100S is specially designed for green energy systems. 6FM100S have a good deep cycle property, maintenance-free. It can be used for more than 350 cycles at 100% discharge in cycle service, up to 12 years in standby service.



ISO 9001:2008 Standard



ISO 14001:2004 Standard



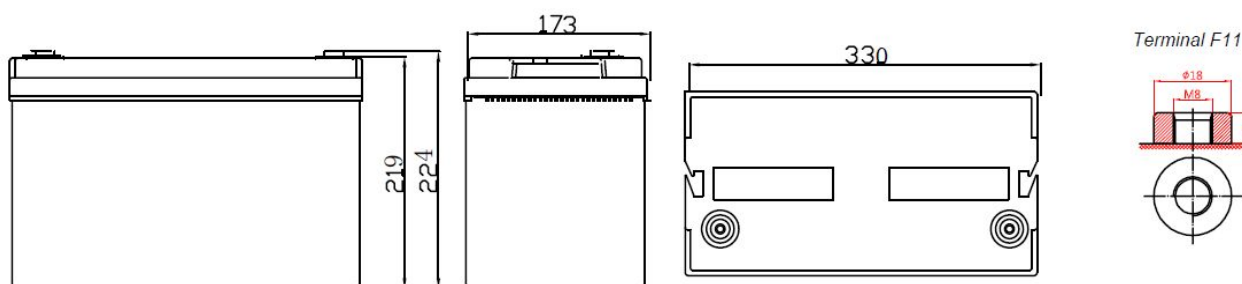
MH46789



Specifications:

Cells per Unit	6
Normal Voltage	12V
Capacity	100Ah@10Hr-rate to 1.80V per cell@25°C
	115Ah@100Hr-rate to 1.90V per cell@25°C
Weight	Approx. (30.5±3%) kg (67.2lbs)
Maximum Discharge Current	1000A(5sec)
Internal Resistance	Approx. 5mΩ 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	13.6~13.9VDC/unit Average @25°C
Maximum Charging Current	25A
Equalization and Cycle Service	14.6V~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 F12
Container Material	ABS(UL94-HB) *Flammability resistance of (UL94-V0) can be available upon request

Dimensions: L330*W173*H219(TH224)



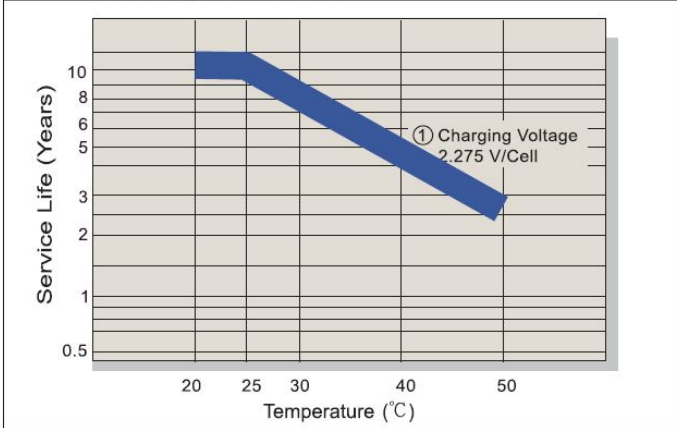
Constant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	48h	100h
9.60	181	113	65.0	39.1	26.9	18.3	12.2	10.2	5.33	2.48	1.20
9.90	177	111	63.7	39.0	26.8	18.2	12.1	10.1	5.30	2.43	1.20
10.2	174	108	62.4	38.4	26.5	18.0	12.1	10.1	5.28	2.39	1.18
10.5	168	105	60.5	38.0	26.2	17.8	12.0	10.0	5.26	2.36	1.16
10.8	165	103	59.3	37.6	26.0	17.6	11.8	10.0	5.25	2.33	1.15

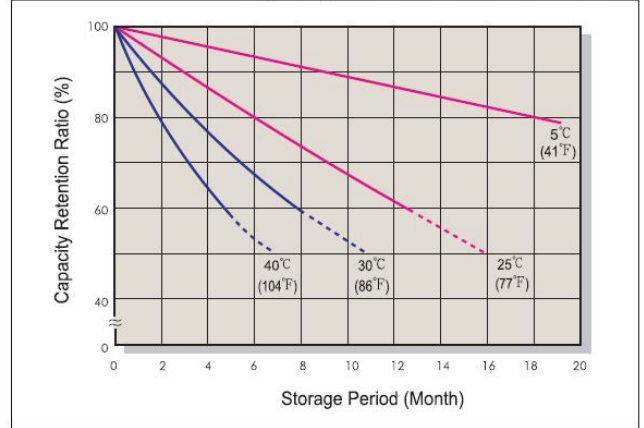
Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	48h	100h
9.60	1997	1288	753	453	316	216	147	121	63.9	4.94	2.40
9.90	1957	1262	726	451	315	215	145	121	63.6	4.86	2.39
10.2	1917	1237	711	444	312	213	145	120	63.4	4.77	2.34
10.5	1857	1198	689	440	309	211	144	120	63.2	4.72	2.31
10.8	1821	1175	676	436	305	209	115	119	63.0	4.64	2.29

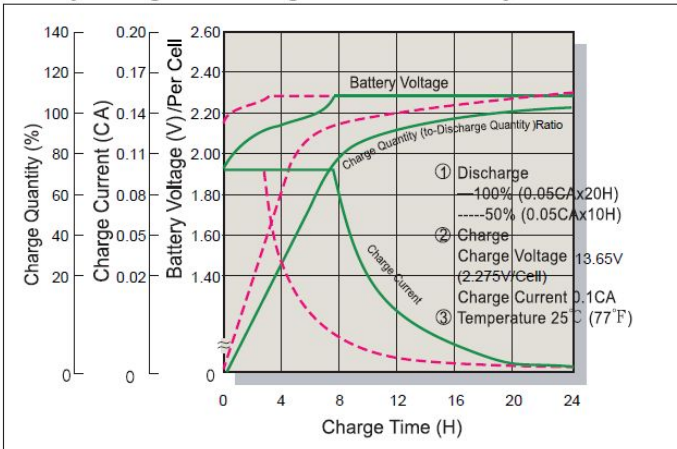
Trickle (or Float) Service Life



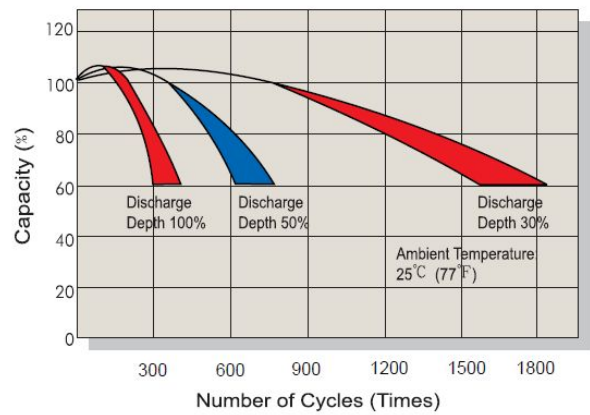
Capacity Retention Characteristic



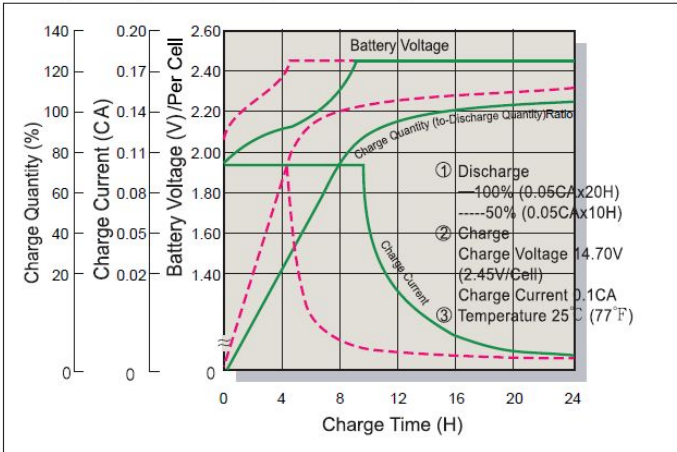
Battery Voltage and Charge Time for Standby Use



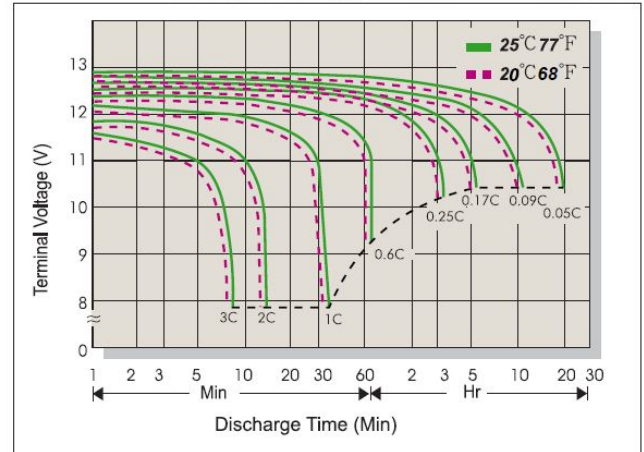
Cycle Service Life



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	0.25 C
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

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