



6FM120S (12V120Ah)

LONGWAY® 6FM120S is specially designed for green energy systems. 6FM120S 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.



Specifications:

Cells per Unit	6
Normal Voltage	12V
Capacity	120Ah@10Hr-rate to 1.80V per cell@25°C
	138Ah@10Hr-rate to 1.80V per cell@25°C
Weight	Approx. (35.0±3%) kg (77.16lbs)
Maximum Discharge Current	1200A(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	30A
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 F17
Container Material	ABS(UL94-HB) *Flammability resistance of (UL94-V0) can be available upon request



ISO 9001:2008 Standard



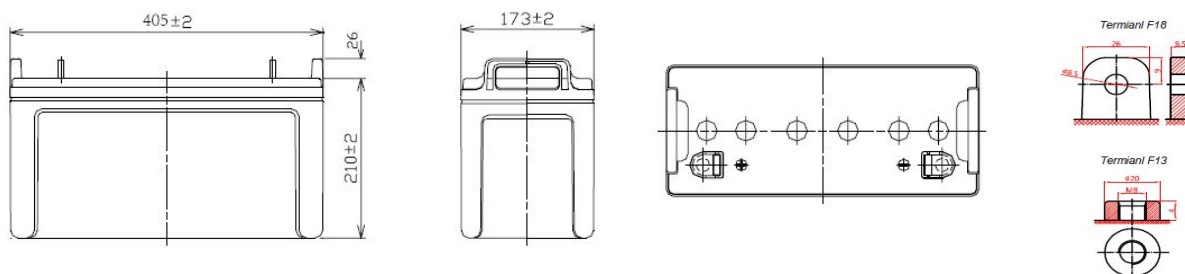
ISO 14001:2004 Standard



MH46789



Dimensions: L405*W173*H210(TH237)mm



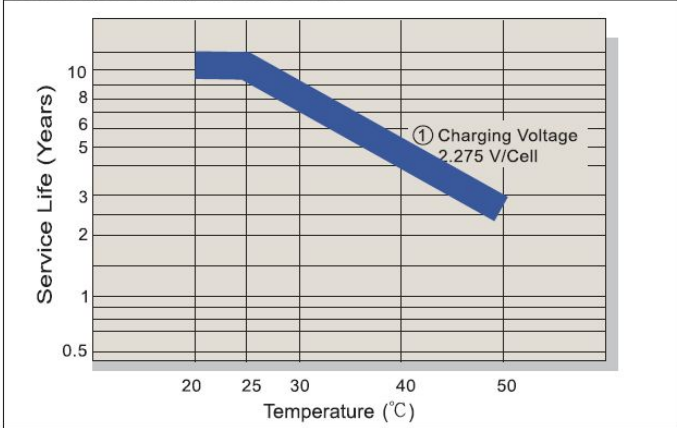
Constant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	48h	100h
9.60	217.2	135.6	78.00	46.98	32.28	21.92	14.69	12.18	6.395	2.971	1.442
9.90	212.9	132.9	76.44	46.75	32.12	21.82	14.54	12.12	6.363	2.921	1.435
10.2	208.5	130.2	74.88	46.06	31.80	21.60	14.49	12.07	6.338	2.868	1.410
10.5	202.0	126.1	72.54	45.60	31.48	21.38	14.40	12.03	6.316	2.837	1.391
10.8	198.1	123.7	71.14	45.13	31.16	21.17	14.11	12.00	6.300	2.790	1.380

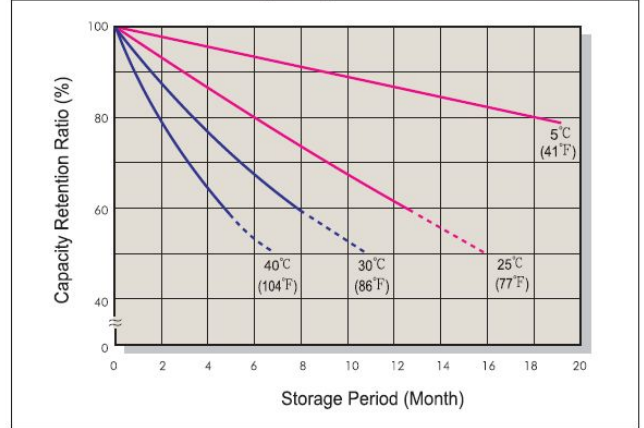
Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	48h	100h
9.60	2397	1546	903.2	544.0	379.6	259.1	176.3	145.4	76.734	5.928	2.877
9.90	2349	1515	871.4	541.3	377.7	257.9	174.5	144.7	76.356	5.828	2.863
10.2	2301	1484	853.6	533.3	374.0	255.3	173.8	144.1	76.054	5.722	2.814
10.5	2229	1438	827.0	528.0	370.2	252.8	172.8	143.6	75.789	5.661	2.775
10.8	2186	1410	811.0	522.7	366.5	250.2	169.3	143.3	75.600	5.566	2.753

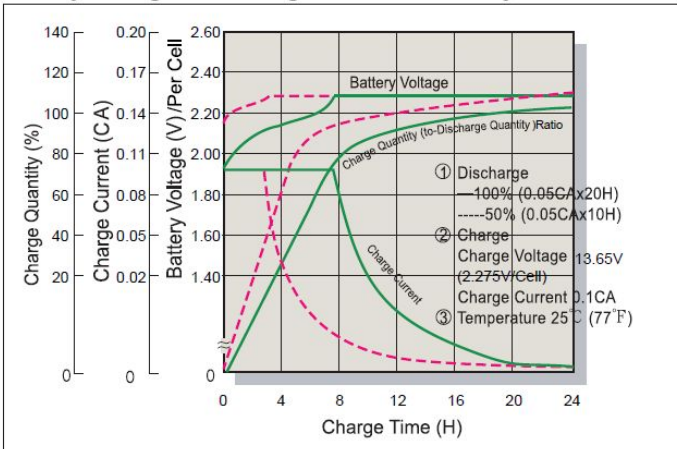
Trickle (or Float) Service Life



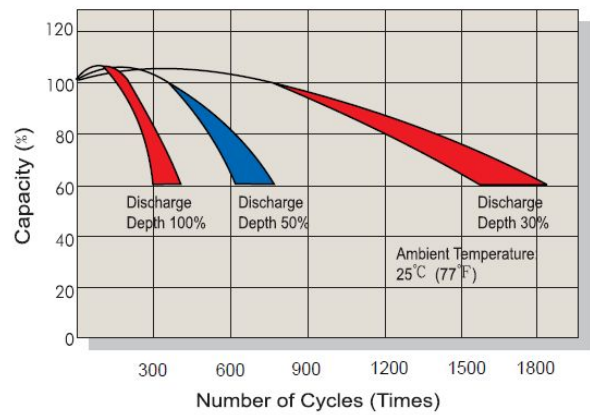
Capacity Retention Characteristic



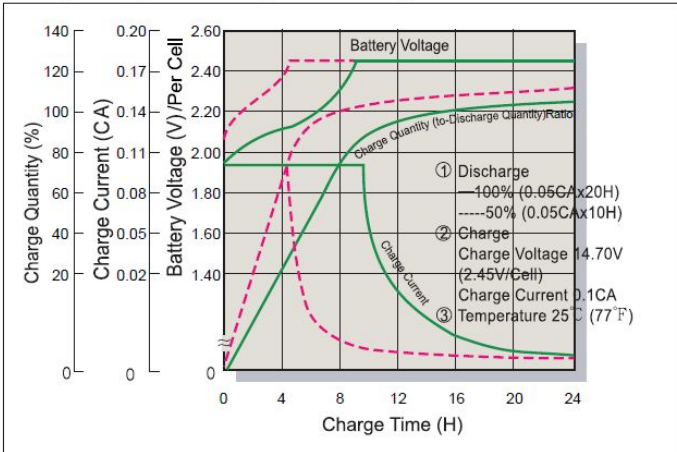
Battery Voltage and Charge Time for Standby Use



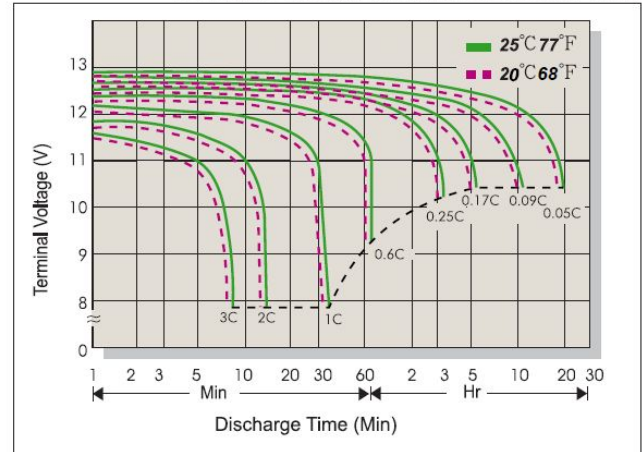
Cycle Service Life



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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