



6FM55S (12V55Ah)

LONGWAY® 6FM55S is specially designed for green energy systems. 6FM50S 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



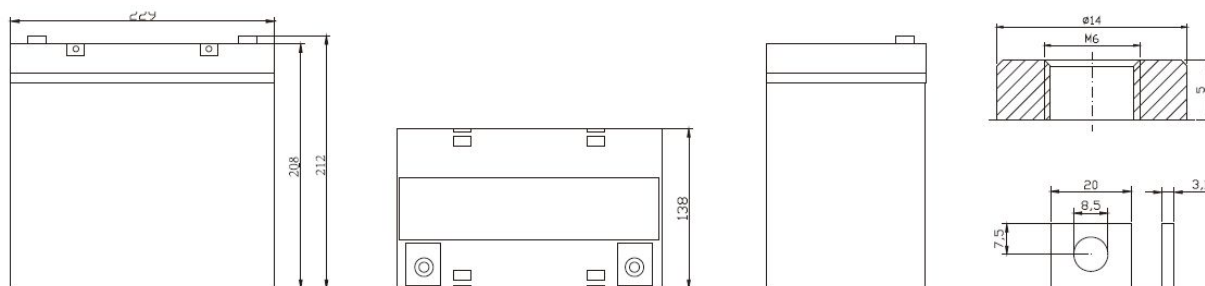
MH46789



Specifications:

Cells per Unit	6
Normal Voltage	12V
Capacity	55Ah@10Hr-rate to 1.80V per cell@25°C
	63Ah@100Hr-rate to 1.90V per cell@25°C
Weight	Approx. (17.2±3%) kg (37.9lbs)
Maximum Discharge Current	275A(5sec)
Internal Resistance	Approx. 5.6mΩ 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	13.75A
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 F5/F9
Container Material	ABS(UL94-HB) *Flammability resistance of (UL94-V0) can be available upon request

Dimensions: L229*W138*H208(TH212)mm



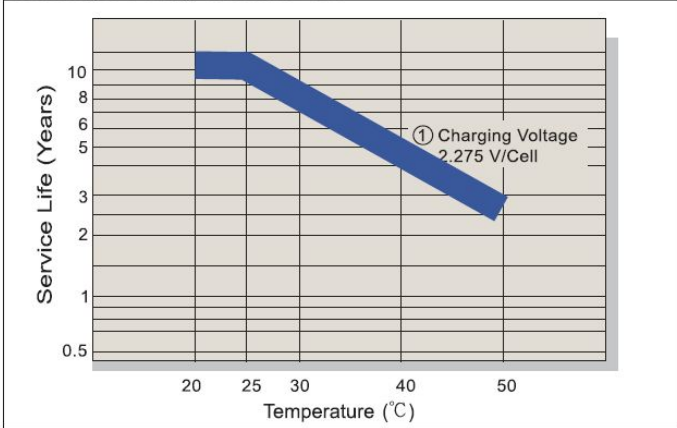
Constant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	48h	100h
9.60	100	62	35.8	21.5	14.8	10.0	6.7	5.6	2.93	1.36	0.66
9.90	98	61	35.0	21.4	14.7	10.0	6.7	5.6	2.92	1.34	0.66
10.2	96	60	34.3	21.1	14.6	9.9	6.6	5.5	2.90	1.31	0.65
10.5	93	58	33.2	20.9	14.4	9.8	6.6	5.5	2.89	1.30	0.64
10.8	91	57	32.6	20.7	14.3	9.7	6.5	5.5	2.89	1.28	0.63

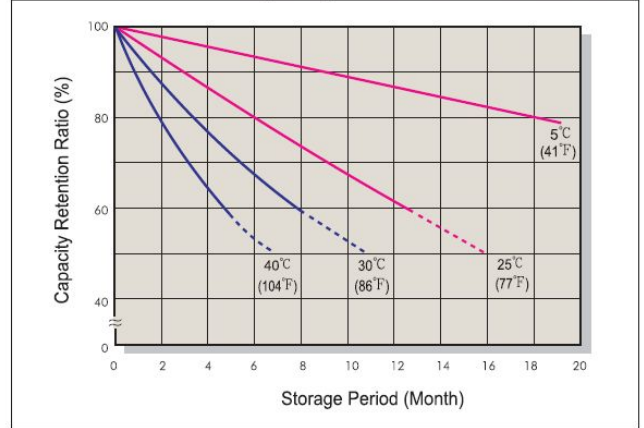
Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	48h	100h
9.60	1098	709	414	249	174	119	81	67	35.2	2.72	1.32
9.90	1076	694	399	248	173	118	80	66	35.0	2.67	1.31
10.2	1054	680	391	244	171	117	80	66	34.9	2.62	1.29
10.5	1022	659	379	242	170	116	79	66	34.7	2.59	1.27
10.8	1002	646	372	240	168	115	78	66	34.7	2.55	1.26

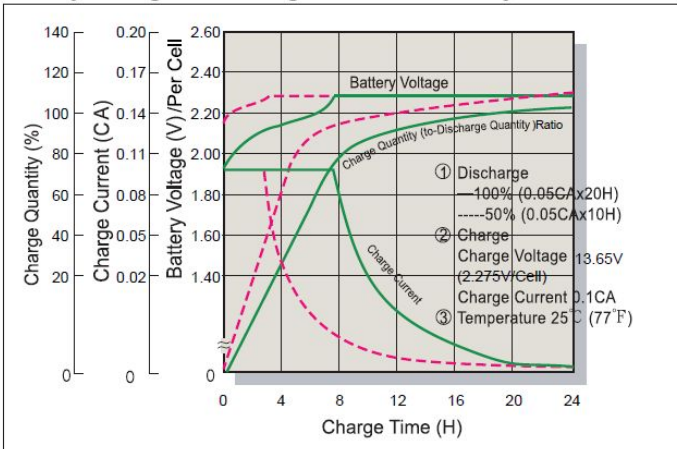
Trickle (or Float) Service Life



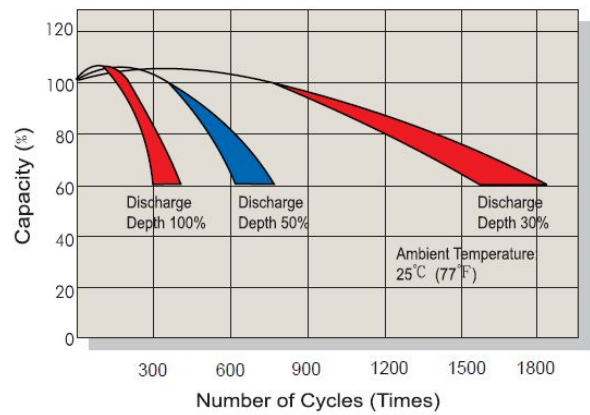
Capacity Retention Characteristic



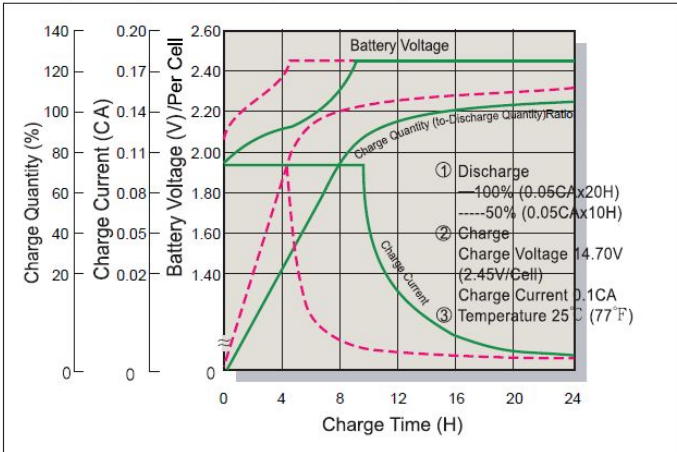
Battery Voltage and Charge Time for Standby Use



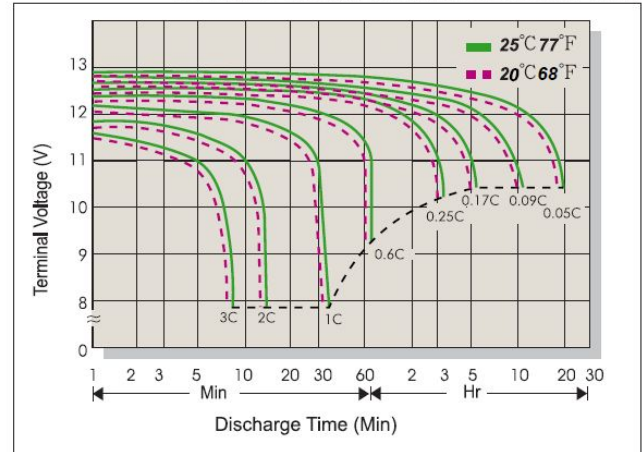
Cycle Service Life



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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