



6FM20S(12V20Ah)

LONGWAY® 6FM20S is specially designed for green energy systems. 6FM20S 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 8 years in standby service.



ISO 9001:2008 Standard



ISO 14001:2004 Standard



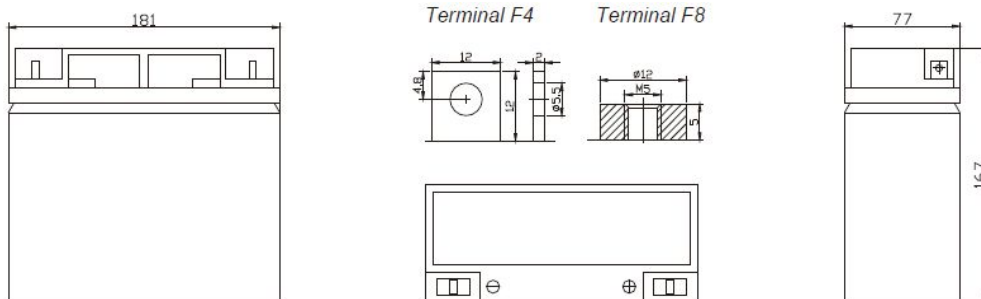
MH46789



Specifications:

Cells per Unit	6
Normal Voltage	12V
Capacity	20Ah@10Hr-rate to 1.80V per cell@25°C
	23Ah@100Hr-rate to 1.90V per cell@25°C
Weight	Approx. (5.90±3%kg) (13.01bs)
Maximum Discharge Current	200A(5sec)
Internal Resistance	Approx. 12mΩ 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	6.0A
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 F4
Container Material	ABS(UL94-HB) *Flammability resistance of (UL94-V0) can be available upon request

Dimensions: L181*W77*H167(TH167)mm



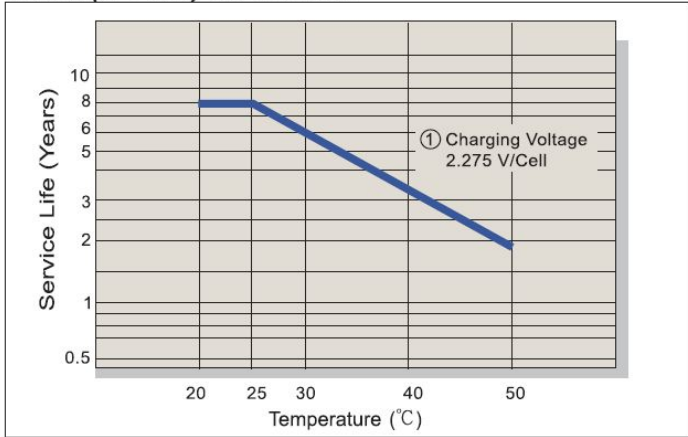
Constant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	48h	100h
9.60	34.2	24.0	13.1	7.7	5.4	3.69	2.41	2.03	1.04	0.50	0.24
9.90	33.5	23.5	12.8	7.7	5.4	3.68	2.38	2.02	1.03	0.49	0.24
10.2	32.8	23.0	12.6	7.6	5.3	3.64	2.37	2.01	1.03	0.48	0.24
10.5	31.8	22.3	12.2	7.5	5.2	3.60	2.36	2.01	1.02	0.47	0.23
10.8	31.2	21.9	11.9	7.4	5.2	3.57	2.31	2.00	1.02	0.47	0.23

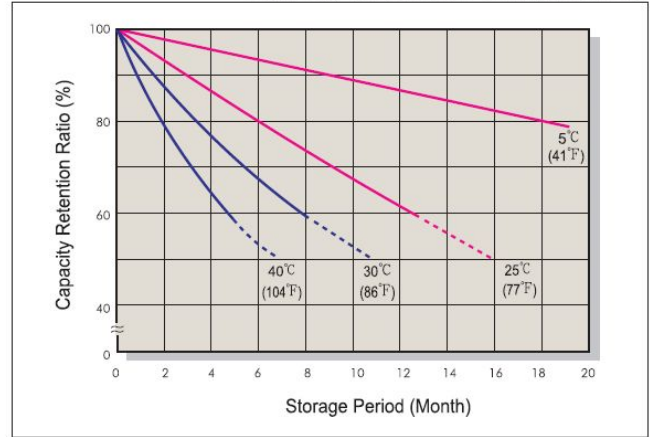
Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	48h	100h
9.60	377	274	152	89	63	43.7	28.9	24.2	12.4	0.99	0.48
9.90	370	268	146	89	63	43.5	28.6	24.1	12.4	0.97	0.48
10.2	362	263	143	88	62	43.0	28.5	24.0	12.3	0.95	0.47
10.5	351	254	139	87	62	42.6	28.3	23.9	12.3	0.94	0.46
10.8	344	250	136	86	61	42.2	27.8	23.9	12.2	0.93	0.46

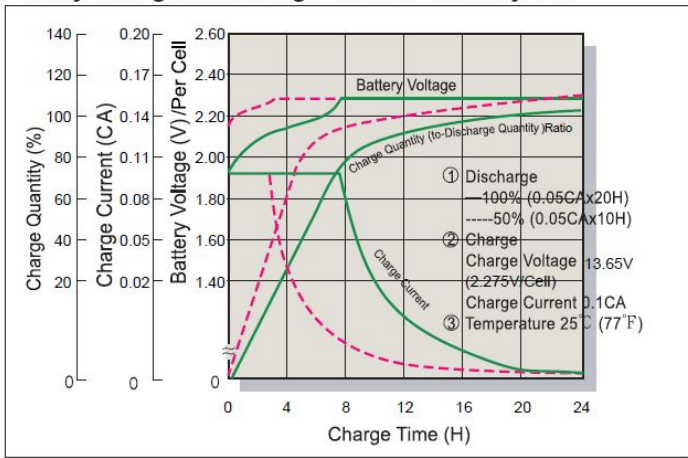
Trickle (or Float) Service Life



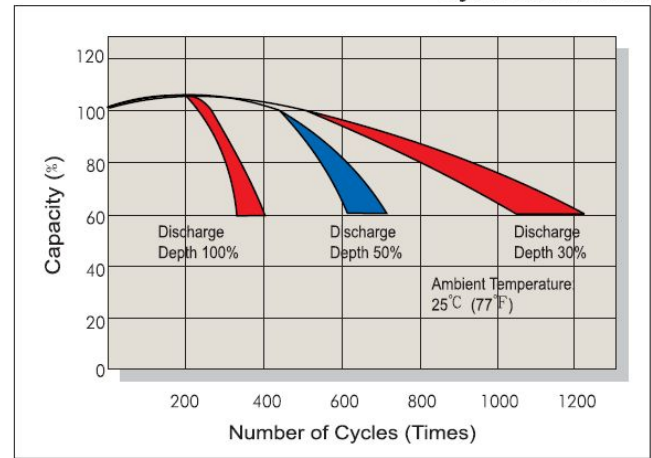
Capacity Retention Characteristic



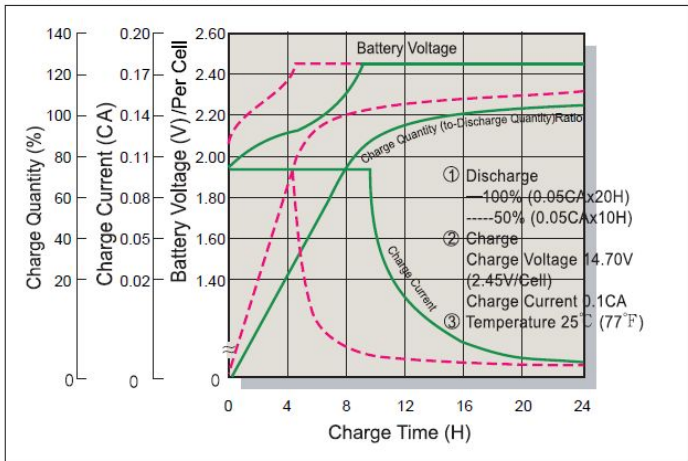
Battery Voltage and Charge Time for Standby Use



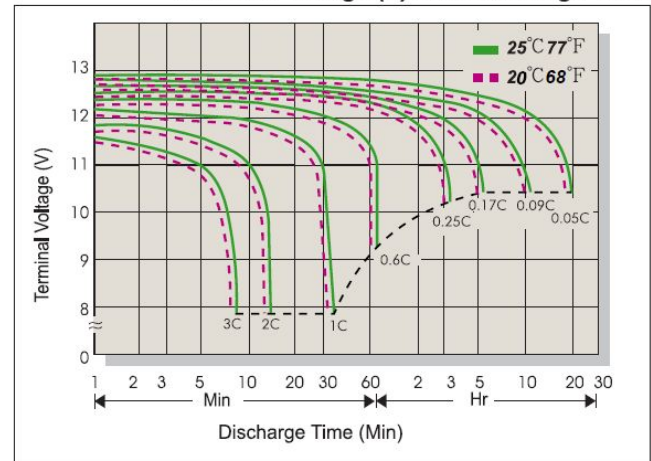
Cycle Service Life



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	0.3C
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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KY-IOP-LS12-20 A0. November 2012