



6FM65S (12V65Ah)

LONGWAY® 6FM65S is specially designed for green energy systems. 6FM65S 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



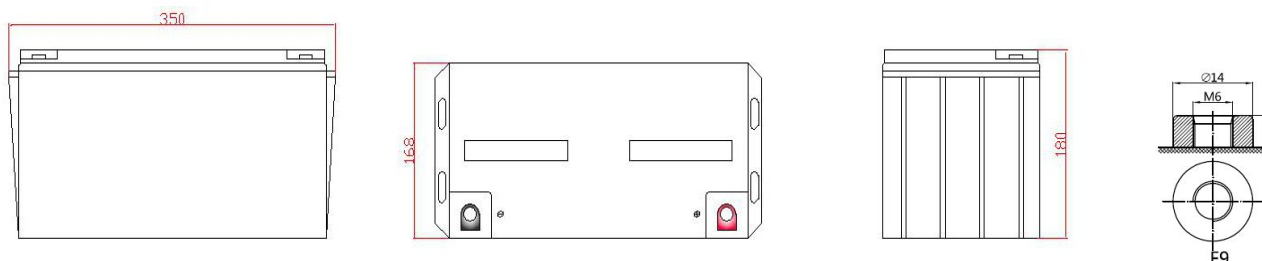
MH46789



Specifications:

Cells per Unit	6
Normal Voltage	12V
Capacity	65Ah@10Hr-rate to 1.80V per cell@25°C
	75Ah@100Hr-rate to 1.90V per cell@25°C
Weight	Approx.(22.5±3%) kg (49.6lbs)
Maximum Discharge Current	650A(5sec)
Internal Resistance	Approx. 5.5mΩ 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	13.7~13.9VDC/unit Average @25°C
Maximum Charging Current	19.5A
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 F9
Container Material	ABS(UL94-HB) *Flammability resistance of (UL94-V0) can be available upon request

Dimensions: L350*W168*H180(TH180)mm



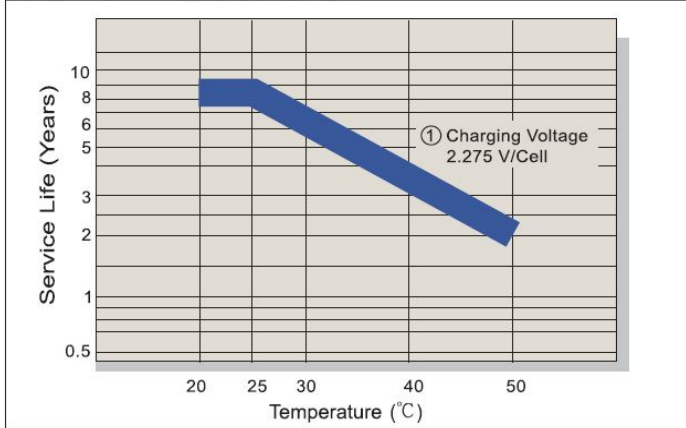
Constant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	48h	100h
9.60	118	73.5	42.3	25.4	17.5	11.9	7.96	6.60	3.46	1.61	0.78
9.90	115	72.0	41.4	25.3	17.4	11.8	7.88	6.57	3.45	1.58	0.78
10.2	113	70.5	40.6	24.9	17.2	11.7	7.85	6.54	3.43	1.55	0.76
10.5	109	68.3	39.3	24.7	17.1	11.6	7.80	6.52	3.42	1.54	0.75
10.8	107	67.0	38.5	24.4	16.9	11.5	7.64	6.50	3.41	1.51	0.75

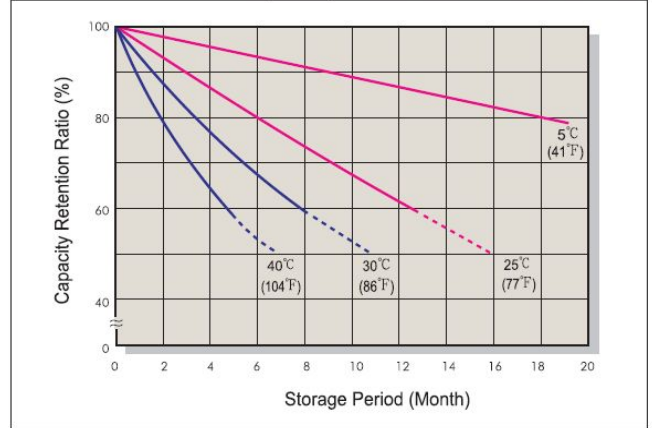
Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	48h	100h
9.60	1298	837	489	295	206	140	95.5	78.8	41.6	3.21	1.56
9.90	1272	821	472	293	205	140	94.5	78.4	41.4	3.16	1.55
10.2	1246	804	462	289	203	138	94.2	78.1	41.2	3.10	1.52
10.5	1207	779	448	286	201	137	93.6	77.8	41.1	3.07	1.50
10.8	1184	764	439	283	199	136	91.7	77.6	41.0	3.01	1.49

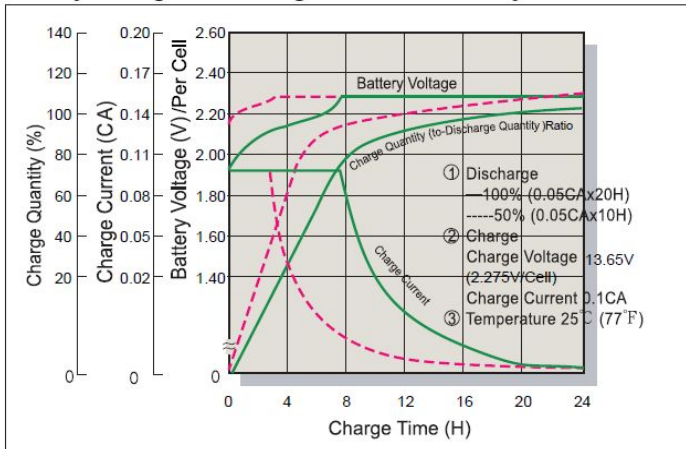
Trickle (or Float) Service Life



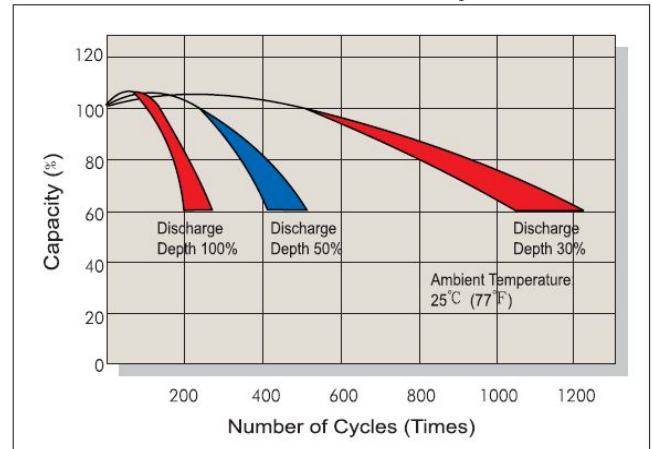
Capacity Retention Characteristic



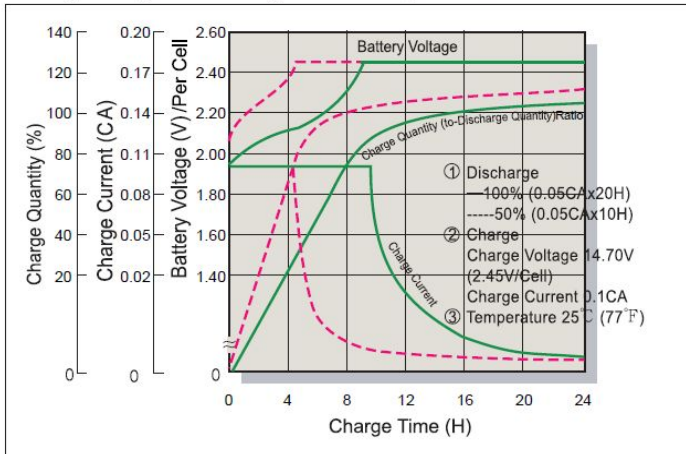
Battery Voltage and Charge Time for Standby Use



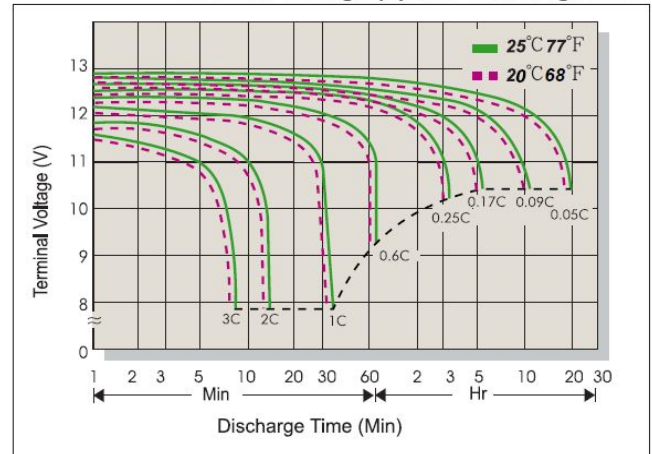
Cycle Service Life



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	0.25C
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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