



6FM80GEL (12V80Ah)

6FM80GEL is specially designed for green energy systems. 6FM80GEL 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	80Ah@20Hr-rate to 1.75V per cell@25°C
Weight	Approx.(22.5±3%)kg(49.60bs)
Maximum Discharge Current	800A(5sec)
Internal Resistance	Approx. 6.0mΩ full charged @25°C
Operating Temperature Range	Discharge: -15°C~50°C Charge: -15°C~40°C Storage: -15°C~40°C
Nominal Operating Temperature Range	25°C±3°C
Float Charging Voltage	13.7~13.9VDC/unit Average @25°C
Maximum Charging Current	20.0A
Equalization and Cycle Service	14.4V~15.0VDC/unit Average @ 25°C
Self Discharge	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



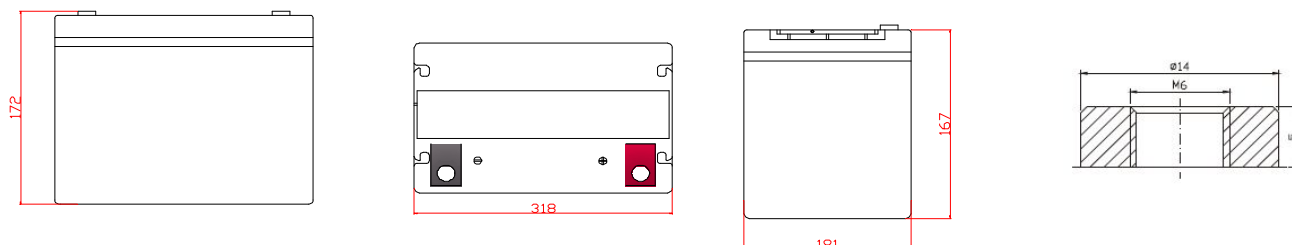
ISO 9001:2008 Standard



ISO 14001:2004 Standard



Dimensions: L318*W181*H167(TH172)mm



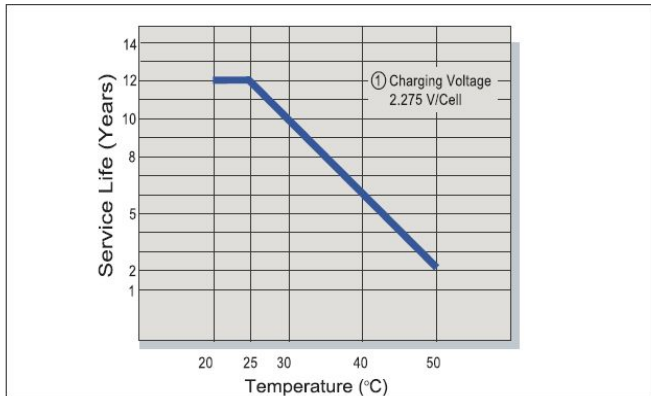
Constant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	193.5	148.5	116.3	78.0	47.3	28.9	20.17	13.70	9.14	7.61	4.00
9.90	187.7	144.0	113.9	76.4	46.3	28.8	20.07	13.64	9.09	7.58	3.98
10.2	183.8	141.1	111.6	74.9	45.4	28.5	19.88	13.50	9.05	7.55	3.96
10.5	178.0	136.6	108.1	72.5	43.9	28.2	19.68	13.37	9.02	7.52	3.95
10.8	150.9	132.6	106.0	71.1	43.1	27.9	19.48	13.23	9.00	7.50	3.94

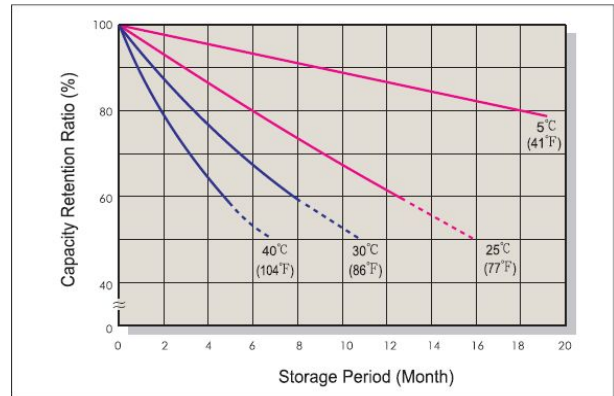
Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	2032	1604	1276	875	539	335	237	162.0	109.6	90.9	48.0
9.90	1971	1556	1251	858	528	333	236	161.2	109.1	90.4	47.7
10.2	1930	1524	1225	840	517	330	234	159.6	108.6	90.1	47.5
10.5	1869	1475	1187	814	501	327	231	158.0	108.3	89.8	47.4
10.8	1585	1432	1164	798	491	323	229	156.4	108.0	89.6	47.3

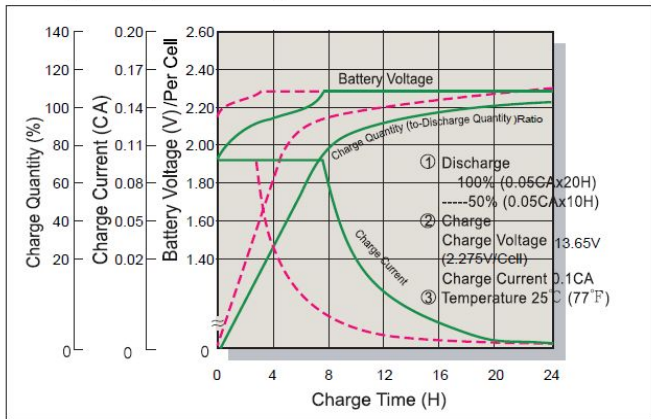
Trickle (or Float) Service Life



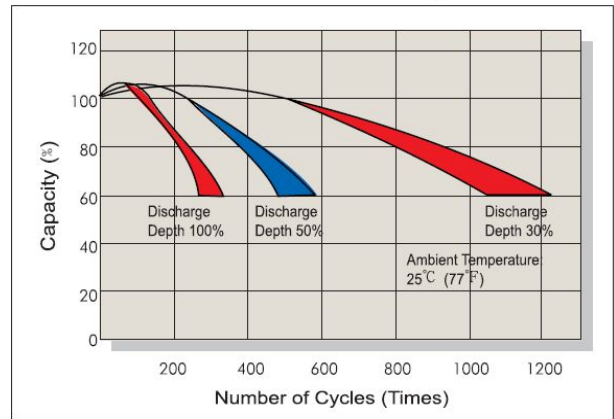
Capacity Retention Characteristic



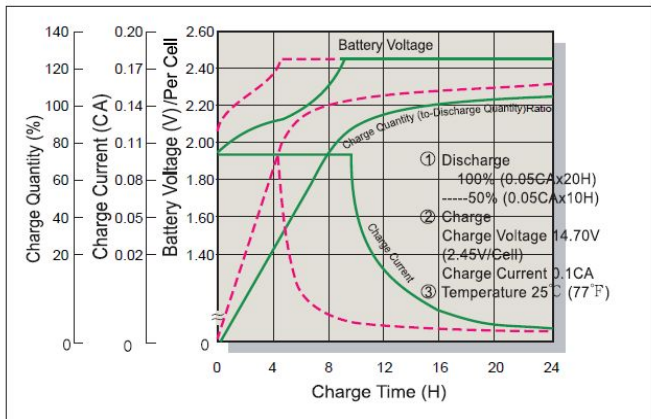
Battery Voltage and Charge Time for Standby Use



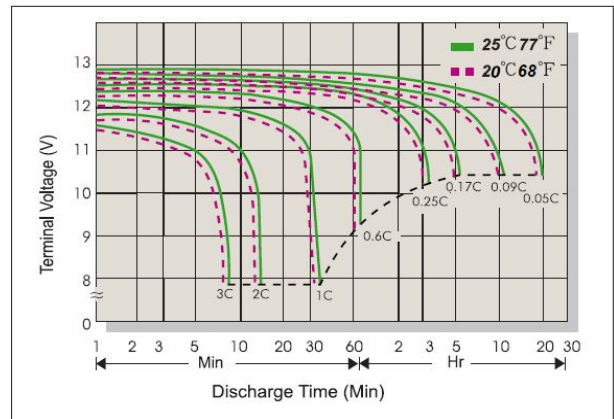
Cycle Service Life



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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