

stored energy solutions for a demanding world



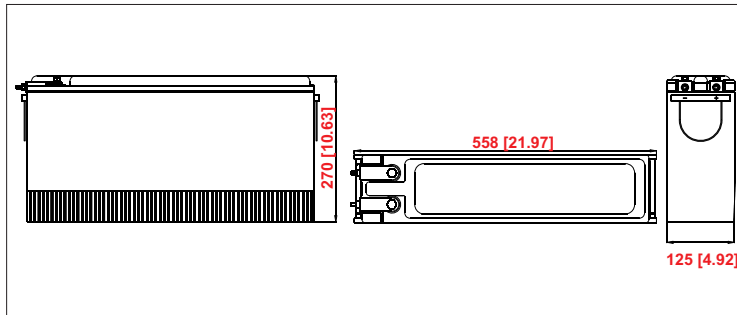
Model: **6-GFM-125F**

MP SERIES

The products are used as standby power for communication, power, military and broadcast and television system. They possess precise ABS heat seal technology between container and lid and patented post seal structure. The design float life is 12 years at 25°C (77°F).



**Dimensions-mm [inch]**



**Specifications**

Battery Model	6-GFM-125F
Nominal Voltage	12V
Rated Capacity	125Ah (10hour rate) to 1.80V/cell @25°C(77°F)
Typical Weight	47.8kg
Internal Resistance	About 3.88mΩ
Operating Temperature Range	Operation (maximum): -40°C to 50°C(-40°F to 122°F)
	Operation (recommended): 15°C to 25°C(59°F to 77°F)
	Storage: -20°C to 40°C(-4°F to 104°F)
Float Voltage	2.25V/cell@25°C(77°F)
Recommended Maximum Charging Current Limit	31.25A
Equalize and Cycle Service	2.35V~2.40V/cell@25°C(77°F)
Self Discharge	The residual capacity is above 90% after 90 days storage(25°C/77°F)
Terminal	M6 Female
Terminal Hardware Torque	8 ± 1.0Nm
Container Material	ABS (V0 optional)

**Constant Current Discharge Characteristics Units: Amperes (25°C, 77°F)**

End voltage per cell	5min	15min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	406	218	132	95.9	77.5	44.5	34.8	26.7	24.0	20.1	15.7	13.0	10.9	6.80	5.68
1.67V	382	211	130	95.2	77.1	44.2	34.2	26.6	23.8	20.1	15.5	12.9	10.8	6.74	5.63
1.70V	378	207	128	94.5	76.5	43.9	34.0	26.4	23.5	20.1	15.5	12.7	10.7	6.72	5.63
1.75V	347	201	127	93.8	75.4	42.8	33.6	26.1	23.2	19.9	15.3	12.6	10.7	6.71	5.62
1.80V	311	187	122	90.0	73.4	42.4	33.4	26.1	22.6	19.5	15.2	12.5	10.6	6.64	5.61
1.83V	297	171	119	87.0	70.2	41.9	32.3	24.8	21.9	18.8	14.8	12.0	10.2	6.63	5.52
1.85V	278	166	111	83.5	68.1	40.3	31.4	24.5	21.4	18.4	14.4	11.9	10.1	6.50	5.47

**Discharge Data with Constant Power Units: Watts per cell (25°C, 77°F)**

End voltage per cell	5min	15min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	679	384	239	180	146	83.9	66.2	51.3	46.0	38.7	30.4	25.2	21.2	13.5	11.3
1.67V	654	377	237	179	145	83.7	65.3	51.2	45.8	38.8	30.0	25.1	21.0	13.4	11.3
1.70V	650	373	237	179	145	83.4	65.3	51.0	45.4	38.7	30.0	24.6	20.8	13.4	11.3
1.75V	607	370	236	178	142	82.9	64.7	50.9	45.1	38.6	29.7	24.5	20.8	13.3	11.3
1.80V	567	349	231	174	142	82.7	64.5	50.8	44.1	38.2	29.7	24.4	20.7	13.4	11.2
1.83V	546	320	228	169	136	81.6	63.0	49.0	43.1	37.1	29.4	23.8	20.3	13.3	11.2
1.85V	518	313	212	162	132	79.0	61.3	48.3	42.1	36.4	28.5	23.6	20.2	13.1	11.1

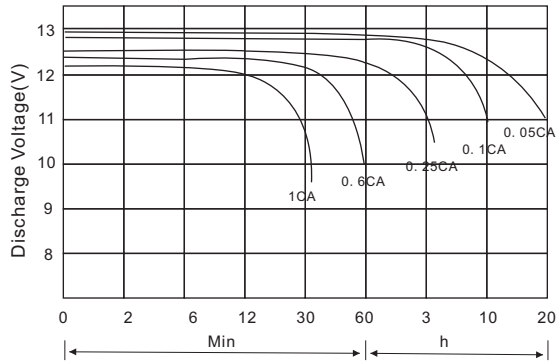
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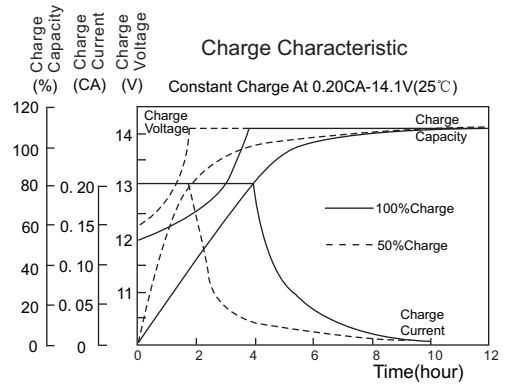
Model: **6-GFM-125F**

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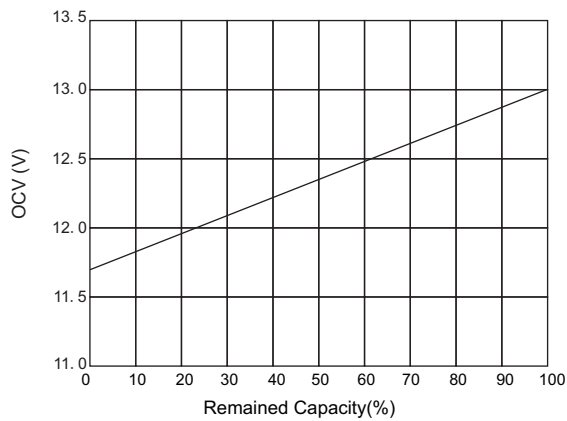
Terminal Voltage(V) Vs. Discharge Time (25°C, 77°F)



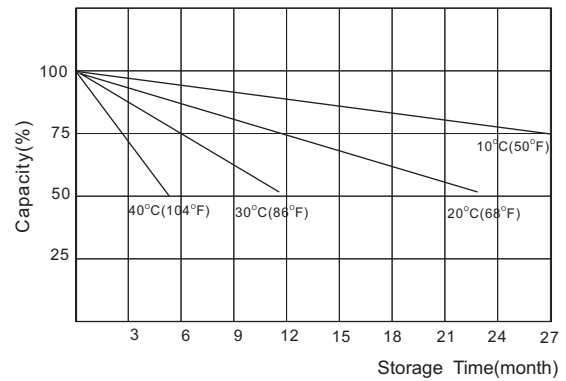
Battery Voltage Vs. Charge Time



Relationship of OCV Vs. State of Charge



Capacity Retention Characteristic



**Charging Procedures**

Application	Charge Voltage (V/Cell)			Max. Charge Current
	Temperature	Set Point	Allowable Range	
Cycle	25°C	2.40	2.35~2.45	0.25C
Standby	25°C	2.25	2.23~2.27	

**Discharge Current VS. Discharge Voltage**

Final Discharge Voltage V/Cell	1.80	1.70	1.55	1.30
Discharge Current (A)	0.2C ≥ (A)	0.2C < (A) < 0.5C	0.5C < (A) < 1.0C	(A) > 1.0C

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