



stored energy solutions for a demanding world

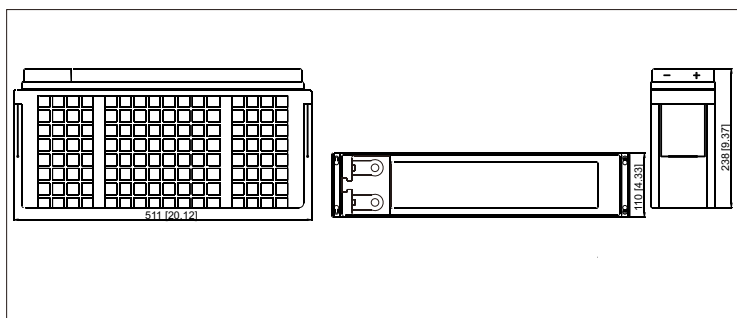
**Model: 6-GFM-105F**

**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**

<b>Battery Model</b>	6-GFM-105F
<b>Nominal Voltage</b>	12V
<b>Rated Capacity</b>	100Ah (10hour rate) to 1.80V/cell @25°C(77°F)
<b>Typical Weight</b>	34kg
<b>Internal Resistance</b>	Approx 5.4mΩ
<b>Operating Temperature Range</b>	Operation (maximum): -40°C to 55°C(-40°F to 131°F)
	Operation (recommended): 15°C to 25°C(59°F to 77°F)
	Storage: -20°C to 40°C(-4°F to 104°F)
<b>Float Voltage</b>	2.25V/cell@25°C(77°F)
<b>Recommended Maximum Charging Current Limit</b>	25A
<b>Equalize and Cycle Service</b>	2.35V~2.40V/cell@25°C(77°F)
<b>Self Discharge</b>	The residual capacity is above 90% after 90 days storage(25°C/77°F)
<b>Terminal</b>	M6 Female
<b>Terminal Hardware Torque</b>	10 ± 1.0Nm
<b>Container Material</b>	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	372	200	121	87.8	71.0	40.7	29.5	23.2	19.6	16.8	12.9	10.6	8.94	5.60	4.68
1.67V	350	193	119	87.2	70.6	40.5	29.0	23.0	19.5	16.7	12.8	10.5	8.93	5.55	4.64
1.70V	346	190	117	86.5	70.0	40.2	28.8	22.9	19.2	16.5	12.7	10.5	8.84	5.54	4.64
1.75V	318	184	116	85.9	69.0	39.1	28.5	22.7	19.1	16.4	12.6	10.4	8.84	5.53	4.63
1.80V	285	171	111	82.4	68.0	38.8	28.3	22.6	18.7	16.1	12.5	10.3	8.77	5.47	4.62
1.83V	272	157	109	79.7	64.3	38.3	27.4	21.6	18.0	15.5	12.2	9.92	8.34	5.46	4.55
1.85V	255	152	102	76.5	62.3	36.9	26.6	21.3	17.6	15.2	11.8	9.84	8.24	5.36	4.51

**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	622	351	219	165	133	76.8	56.1	44.5	37.5	32.3	25.0	20.6	17.3	11.1	9.29
1.67V	599	345	217	164	133	76.6	55.4	44.4	37.5	32.1	24.9	20.4	17.3	11.1	9.29
1.70V	595	341	217	164	132	76.3	55.4	44.2	37.0	31.9	24.7	20.2	17.2	11.0	9.27
1.75V	563	339	216	163	130	75.9	54.8	44.2	37.0	31.8	24.5	20.2	17.1	11.0	9.27
1.80V	516	320	211	159	130	75.7	54.6	44.1	36.3	31.5	24.4	20.1	17.1	11.0	9.25
1.83V	500	293	209	155	125	74.7	53.4	42.5	35.5	30.6	24.2	19.6	16.6	11.0	9.19
1.85V	474	286	194	148	121	72.3	51.9	41.9	34.7	30.0	23.5	19.5	16.4	10.8	9.11

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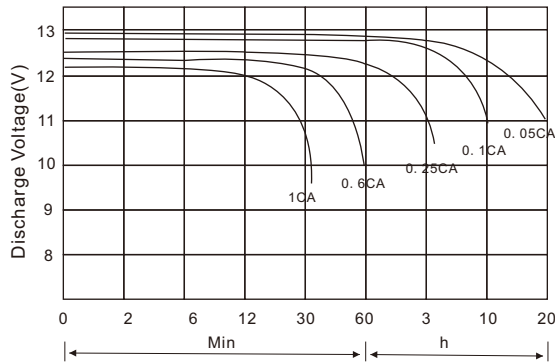


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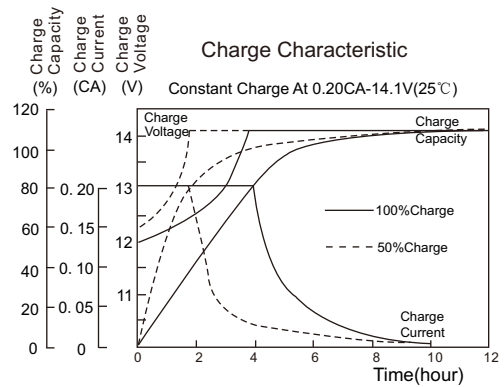
Model: **6-GFM-105F**

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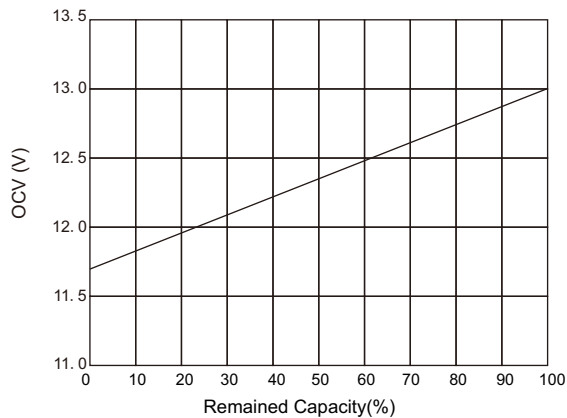
Terminal Voltage(V) Vs. Discharge Time (25°C, 77°F)



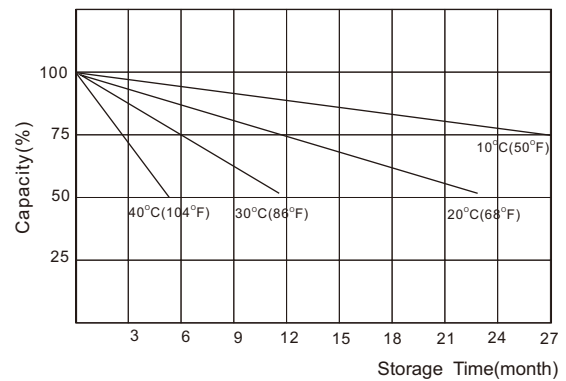
Battery Voltage Vs. Charge Time



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	2.35~2.40	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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