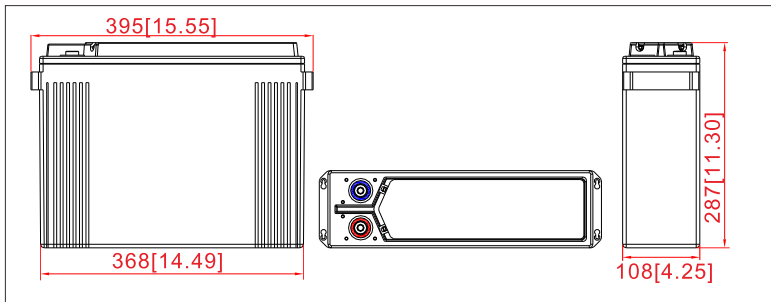


Model: 6-GFM-100FB

MP SERIES

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

Dimensions-mm[inch]



Specifications

Battery Model	6-GFM-100FB
Nominal Voltage	12V
Rated Capacity	100Ah (10hour rate) to 1.80V/cell @25°C(77°F)
Typical Weight	32kg
Internal Resistance	Approx 4.68 mΩ
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	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)

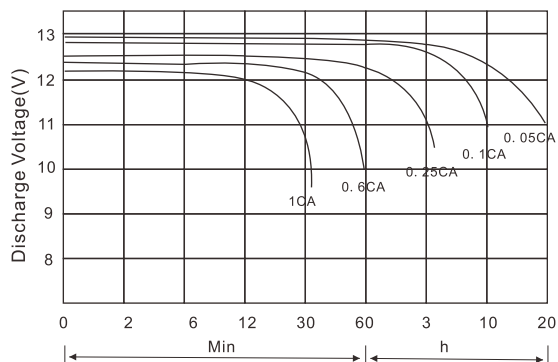
Constant Current Discharge Characteristics Units: Amperes (25°C, 77°F)

End voltage per cell	5min	15min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	323	174	105	76.4	61.7	35.5	27.8	21.4	19.1	16.0	12.4	10.4	8.75	5.43	4.53
1.67V	304	168	103	76.1	61.5	35.3	27.3	21.2	18.8	15.9	12.3	10.3	8.72	5.38	4.49
1.70V	302	166	102	75.4	61.2	35.0	27.1	21.0	18.7	15.9	12.3	10.3	8.69	5.37	4.49
1.75V	276	161	100	75.0	60.2	34.1	26.9	20.8	18.5	15.5	12.1	10.2	8.67	5.30	4.49
1.80V	249	150	97.1	71.8	58.6	33.9	26.6	20.7	17.9	15.1	11.9	10.0	8.65	5.29	4.48
1.83V	236	136	95.3	69.4	56.1	33.3	25.7	19.8	17.4	15.1	11.8	9.89	8.61	5.29	4.43
1.85V	222	132	88.6	66.6	54.2	32.2	24.9	19.6	16.9	14.7	11.4	9.74	8.58	5.20	4.37

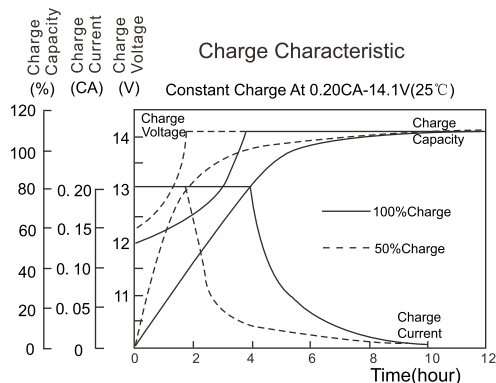
Discharge Data with Constant Power Units: Watts per cell (25°C, 77°F)

End voltage per cell	5min	15min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	541	304	190	142	116	66.9	52.9	40.0	36.6	31.0	24.2	20.1	16.8	10.7	9.00
1.67V	521	300	188	143	114	66.7	52.2	40.0	36.5	30.9	23.9	19.9	16.7	10.6	8.99
1.70V	519	296	187	140	114	66.5	52.2	40.9	36.2	30.9	23.9	19.7	16.7	10.6	8.99
1.75V	483	295	186	139	113	66.1	51.6	40.8	36.1	30.8	23.4	19.6	16.5	10.5	8.88
1.80V	452	278	184	138	113	59.9	51.5	40.5	35.2	30.5	23.3	19.5	16.5	10.5	8.87
1.83V	435	254	181	133	108	65.3	50.2	39.1	34.4	29.5	23.2	19.0	16.3	10.4	8.87
1.85V	411	248	168	130	105	63.1	48.9	38.5	33.6	29.0	22.7	18.8	16.1	10.30	8.79

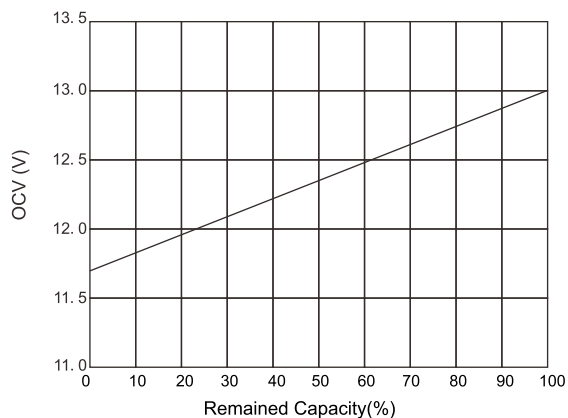
Terminal Voltage(V) Vs. Discharge Time (25°C, 77°F)



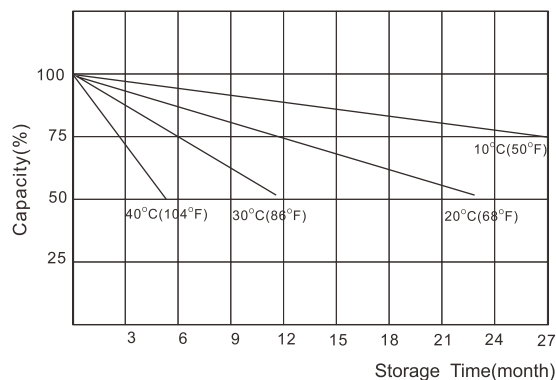
Battery Voltage Vs. Charge Time



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

NARADA POWER SOURCE CO.,LTD.
 9F, Building A, No. 50 Zijinghua Road, Hangzhou, China
 Tel:+86-571-56975980 Fax:+86-571-56975955
 Website:www.naradapower.com E-mail:intl@narada.biz

NARADA ASIA PACIFIC PTE.LTD.
 65 Ubi Crescent #07-05 HOLA centre, Singapore
 Tel: +65-6848 1191 Fax: +65-6749 3498
 E-mail: sales@narada.com.sg

NARADA EUROPE (UK) LIMITED
 Spectrum House, Dunstable Road, Redbourn,
 St. Albans, Herts AL3 7PR
 Tel: +44 (0)845 371 7095 Fax:+44 (0)845 612 2031
 E-mail: sales@naradaeurope.com



Pb

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