

stored energy solutions for a demanding world

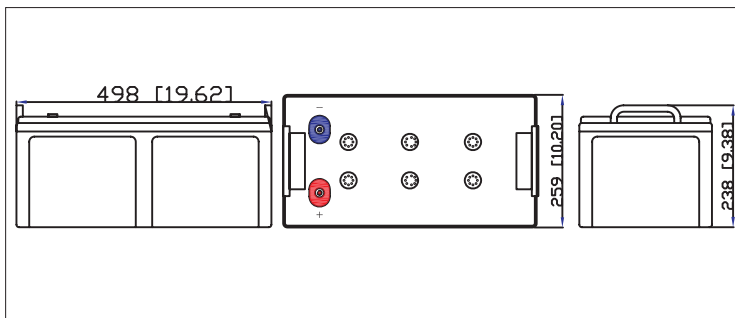


Model: **6-GFM-200M**

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°F).

Dimensions—mm [inch]



Specifications

Battery Model	6-GFM-200M
Nominal Voltage	12V
Rated Capacity	200Ah (10hour rate) to 1.80V/cell @25°C(77°F)
Typical Weight	74.5kg
Internal Resistance	About 2.8mΩ
Operating Temperature Range	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)
Float Voltage	2.25V/cell@25°C(77°F)
Recommended Maximum Charging Current Limit	50A
Equalize and Cycle Service	2.35V~2.40V@25°C(77°F)
Self Discharge	The residual capacity is above 87% after 90 days storage(25°C/77°F)
Terminal	M8 Female
Terminal Hardware Torque	10 ± 1.0Nm
Container Material	ABS (V0 optional)

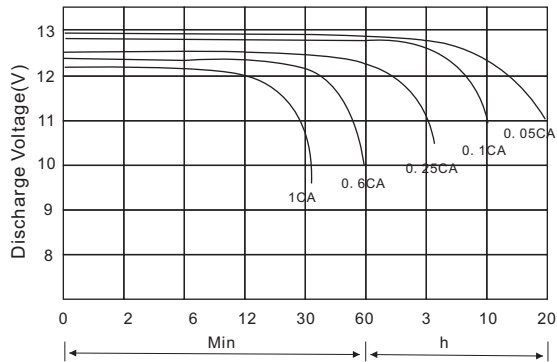
Constant Current Discharge Characteristics Units: Amperes (25°C, 77°F)

End voltage per cell	5min	15min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	650	350	212	153	124	71.1	55.7	42.8	38.4	32.2	25.1	20.6	17.5	10.9	9.09
1.67V	611	337	208	152	123	70.8	54.7	42.5	38.0	32.1	24.8	20.3	17.3	10.8	9.01
1.70V	605	331	205	151	122	70.2	54.4	42.3	37.6	32.1	24.8	20.4	17.2	10.8	9.00
1.75V	556	321	203	150	121	68.4	53.8	41.8	37.2	31.8	24.5	20.2	17.2	10.7	8.99
1.80V	498	299	195	144	117	67.8	53.4	41.7	36.2	31.2	24.4	20.0	17.0	10.6	8.98
1.83V	475	274	191	139	112	67.0	51.7	39.8	35.0	30.1	23.8	19.3	16.3	10.6	8.83
1.85V	445	266	177	134	109	64.5	50.3	39.2	34.2	29.5	23.0	19.1	16.2	10.4	8.76

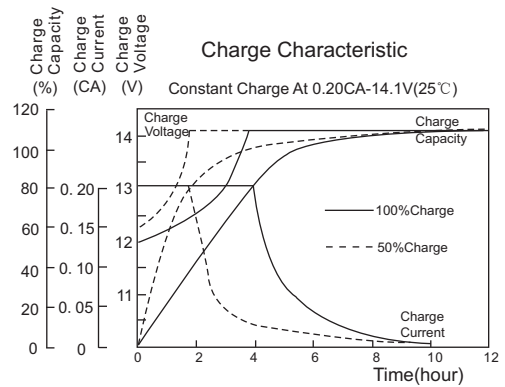
Discharge Data with Constant Power Units: Watts per cell (25°C, 77°F)

End voltage per cell	5min	15min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	1087	614	383	288	233	134	106	82.0	73.6	62.0	48.6	39.9	33.9	21.5	18.0
1.67V	1047	603	380	286	232	134	105	81.9	73.3	61.9	48.1	39.6	33.6	21.5	18.0
1.70V	1040	596	380	286	231	133	105	81.6	72.6	62.0	48.0	39.4	33.3	21.4	18.0
1.75V	971	592	378	285	228	133	103	81.5	72.2	61.7	47.5	39.3	33.3	21.4	18.0
1.80V	907	559	369	278	227	132	103	81.3	70.5	61.1	47.5	39.1	33.2	21.4	18.0
1.83V	874	512	365	270	218	131	101	78.3	69.0	59.4	47.0	38.1	32.5	21.3	17.8
1.85V	828	500	339	259	211	126	98.0	77.3	67.3	58.2	45.6	37.8	32.3	20.9	17.7

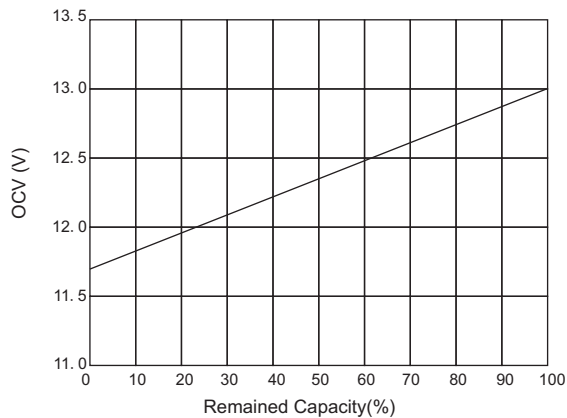
Terminal Voltage(V) Vs. Discharge Time (25°C, 77°F)



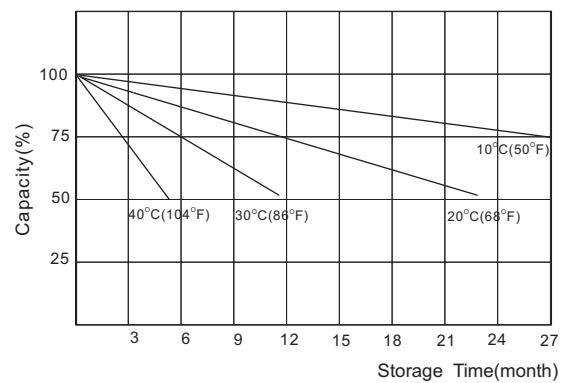
Battery Voltage Vs. Charge Time



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.
 No.459 Wensan Road, Hangzhou, Zhejiang, P.R.China
 Tel:+86-571-28827013 Fax:+86-571-85126942
 Website:www.naradabattery.com E-mail:intl@narada.biz

NARADA EUROPE LTD.
 PO Box 1137, Hemel Hempstead, HP1 9BQ, UK
 Tel:+44 (0) 1442 249791 Fax:+44 (0) 1442 229380
 E-mail: Sales@naradaeurope.com

NARADA ASIA PACIFIC PTE. LTD.
 65 Ubi Crescent HOLA centre #08-02 Singapore
 Tel:+65-68481191/+65-67421208 Fax:+65-67493498
 E-mail: Sales@narada.com.sg

