

MP-121000-GS

Features:

- >> Thick plates and high-density active material
- >> High power density
- >> Longer life in deep cycle applications
- >> Excellent recovery from deep discharge
- >> Extremely low self-discharge rate
- >> Wide suitability of ambient temperature - 20°C~55°C



Application

- >> UPS power supply
- >> Telecom Equipment
- >> Power Station
- >> Solar system
- >> Wind system

PHYSICAL SPECIFICATIONS

Nominal Voltage		12V
Nominal Capacity (10HR)		100AH
Dimensions	Length	331±3mm
	Width	173±2mm
	Container height	216±2mm
	Total Height (with terminal)	222±2mm
Weight±3%		Approx 30.3Kg(66.8lbs)
Internal Resistance(In full charge status)		≈4.0mΩ
Standard Terminals		F13(standard)

Constant – Voltage Charge

Cycle application	<ol style="list-style-type: none"> Limit initial current less than 20A. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C (77°F). Hold at 14.1V to 14.4V until current drop to under 0.6A for at least 3 hours. Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby service	<ol style="list-style-type: none"> Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 20A continuously. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charge status. Temperature compensation coefficient of charging voltage is -18mV/°C

NOTE : The battery should be charged within 9 months of storage ,Otherwise , permanent loss of capacity might occur as a result of sulfation

ELECTRICAL SPECIFICATIONS

Rated Capacity	20 hour rate(5.0A)	103AH
	10 hour rate(10A)	100AH
	5 hour rate(17A)	85AH
	3 hour rate(25A)	75AH
	1 hour rate (55A)	55AH
Capacity affected by Temperature (10Hour Rate)	40°C(104°F)	103%
	25°C(77°F)	100%
	0°C(32°F)	86%

LEAVE POWER FOR MEDAL POWER

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Constant Current Discharge Data Sheet (Amperes at 25°C)

End Voltage	Minute (M)					Hour (H)							
	5	10	15	30	45	1	1.5	2	3	5	8	10	20
10.20	315	240	199	95.9	89.0	62.5	49.4	41.3	25.9	18.0	12.8	10.8	5.46
10.50	280	220	186	92.0	85.0	60.0	47.4	39.8	25.1	17.2	12.1	10.5	5.41
10.80	260	200	173	88.9	81.0	57.5	45.5	38.3	24.2	16.4	11.5	10.2	5.35

Constant Power Discharge Data Sheet (Watt at 25°C)

End Voltage	Minute (M)					Hour (H)							
	5	10	15	30	45	1	1.5	2	3	5	8	10	20
10.20	3130	2650	2132	1198	900	782	570	429	320	206	153	130	68.1
10.50	3010	2250	1915	1171	880	770	562	415	310	200	151	126	66.0
10.80	2800	2100	1828	1145	850	735	536	401	299	193	149	120	64.5

