

MP-1290-AS

Features:

- >> Designed floating charging service life: 8 years (25°C)
- >> Sealed and maintenance free operation
- >> Safety valve installation for explosion proof
- >> Low self-discharge characteristic
- >> Wide operating temperature range from 0°C-40°C
- >> Lead Aluminum calcium Tin alloy high energy, prevent



Application

- >> Measuring equipment and instrument
- >> Telephone sets
- >> Lighting equipment
- >> Security systems
- >> UPS power supply

PHYSICAL SPECIFICATIONS

Nominal Voltage		12V
Nominal Capacity (20HR)		9.0AH
Dimensions	Length	151±2mm
	Width	65±2mm
	Container height	95±2mm
	Total Height (with terminal)	100±2mm
Weight±3%		Approx 2.50Kg(5.51lbs)
Internal Resistance(In full charge status)		≈14.0mΩ
Standard Terminals		F01/F02(standard)

Constant – Voltage Charge

Cycle application	<ol style="list-style-type: none"> Limit initial current less than 2.25A. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C (77F). Hold at 14.1V to 14.4V until current drop to under 0.054A 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 13.6to 13.8 volts with current limit 2.25A 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 6 months of storage ,Otherwise , permanent loss of capacity might occur as a result of sulfation	

ELECTRICAL SPECIFICATIONS

Rated Capacity	20 hour rate(450mA)	9.00AH
	10 hour rate(900mA)	8.08AH
	5 hour rate(1.53A)	7.45AH
	27minute rate(9.0A)	4.50AH
	7 minute rate (27A)	3.60AH
Capacity affected by Temperature (20Hour 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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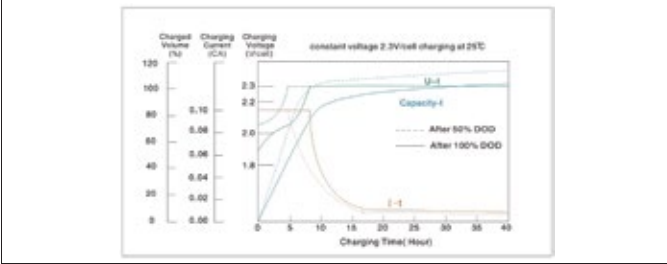
Constant Current Discharge Data Sheet (Amperes at 25°C)

End Voltage	Minute (M)					Hour (H)							
	5	10	15	30	45	1	1.5	2	3	5	8	10	20
10.20	33.3	21.7	17.0	8.72	6.29	5.40	4.31	3.21	2.42	1.55	1.04	0.853	0.459
10.50	33.0	21.5	16.8	8.59	6.22	5.37	4.23	3.08	2.34	1.51	1.03	0.844	0.455
10.80	32.6	21.3	16.7	8.51	6.15	5.32	4.14	2.96	2.25	1.49	1.02	0.836	0.450

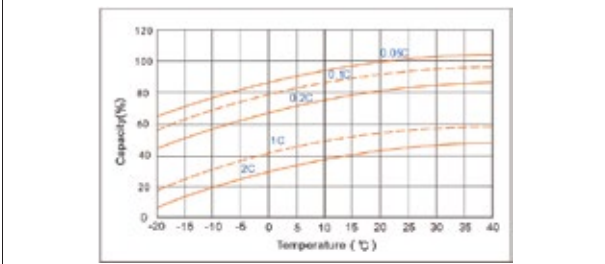
Constant Power Discharge Data Sheet (Watt at 25°C)

End Voltage	Minute (M)					Hour (H)							
	5	10	15	30	45	1	1.5	2	3	5	8	10	20
10.20	362	261	211	119.3	86.98	66.17	50.75	38.18	27.25	17.96	12.65	10.24	5.51
10.50	347	252	205	116.8	84.98	65.12	50.01	37.64	26.63	17.75	12.55	10.08	5.43
10.80	329	243	198	113.5	82.82	64.04	49.26	37.10	26.17	17.55	12.42	9.91	5.36

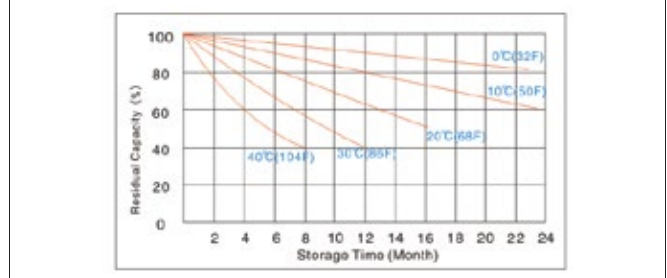
Charge Characteristics



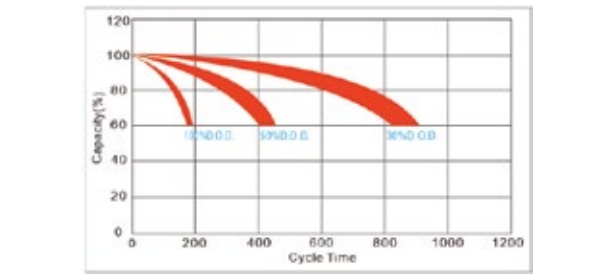
Capacity Curve at Different Temperature



Storage Characteristics



The Relationship Between Lifetime and Depth Of Discharge(25°C/77°F)



Discharge Characteristic (25°C/77°F)

