



MS12260 (12V 26.0Ah)

MS12260 is a general purpose battery with 5 years life in standby service, or more than 260 cycles at 100% D.O.D by cyclic use. As with all MASTERSAFE batteries, all MS models are rechargeable, highly efficient, leak proof and maintenance free.



Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	26.0Ah@20hr -rate t o 1.75V per cell @25°C
Weigh t	Approx. 8.6 Kg
M ax. Discharge Current	260 A (5 sec)
Internal Resistance	Approx. 10 mΩ
Operating Temperature Range	Discharge: -20°C ~ 60°C~ Charge: 0°C~50°C Storage: -20°C ~60°C
Normal Operating Temperature Range	2 5°C ± 5°C
Float charging Voltage	1 3.6 to 13.8 V DC/u nit Average at 25°C
Recommended Maximum Charging Current Lim it	7 .8 A
Equalization and Cycle Service	1 4.4 to 15.0 V DC/u nit Average at 25°C
S elf Discharge	RITAR batteries can b e stored for more than 6 months at 25°C. Please charge batteries before using. For higher temperature, t he time interval will be shorter.
Terminal	Faston F3/F13
Constainer Material	A.B.S. (UL94-HB) Flammability resistance of UL94-V2 can be available upon request.

DISTRIBUIDOR:

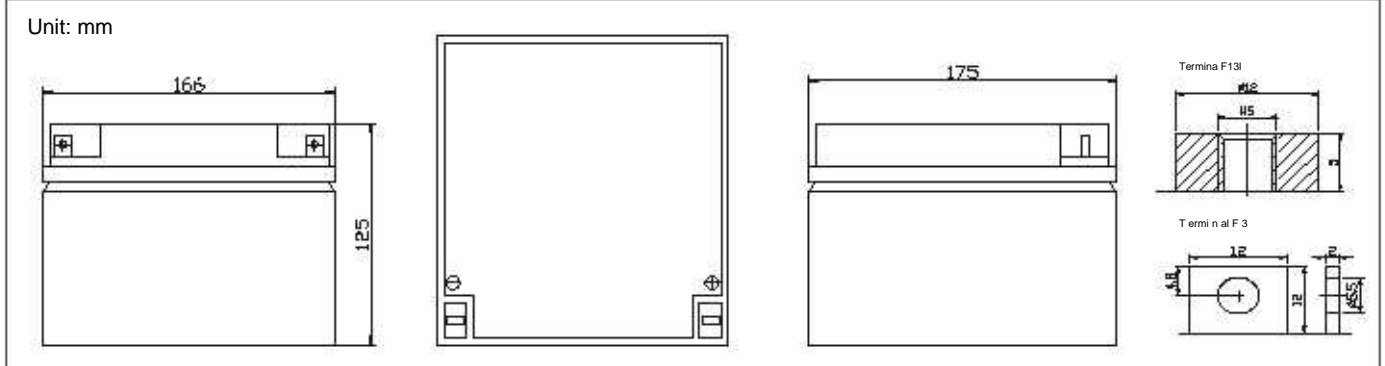


REGULACIÓN Y SISTEMAS DE ENERGÍA

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ISO9001:2000 Certificate

Dimensions



Constant Current Discharge Characteristics Unit: A (25°C)

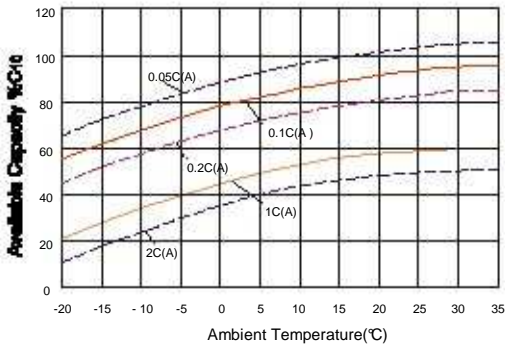
F.V /Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60 V	108	72.2	55.5	30.5	18.0	10.8	6.66	5.46	4.39	3.22	2.55	1.43
1.67 V	101	67.3	52.1	30.0	17.9	10.7	6.63	5.43	4.37	3.22	2.52	1.38
1.70 V	95.6	65.2	50.9	29.8	17.8	10.7	6.60	5.41	4.34	3.22	2.50	1.35
1.75 V	86.3	61.0	48.3	29.1	17.6	10.6	6.58	5.38	4.32	3.22	2.47	1.30
1.80 V	77.1	56.9	45.6	28.4	17.3	10.4	6.53	5.36	4.29	3.20	2.42	1.25
1.85 V	67.9	52.7	43.0	27.7	17.1	10.2	6.47	5.33	4.26	3.20	2.39	1.22

Constant Power Discharge Characteristics Unit: W (25°C)

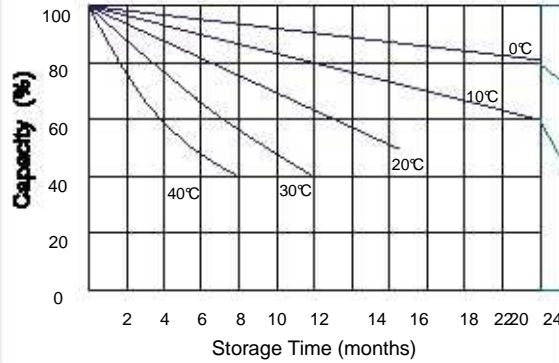
F.V/Time	5 MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	208	135	110	61.0	36.1	21.6	13.3	10.9	10.3	6.47	5.07	2.83
1.67V	195	130	104	60.0	36.0	21.5	13.3	10.8	10.2	6.47	5.02	2.73
1.70V	191	126	102	59.6	35.9	21.4	13.2	10.8	10.2	6.42	4.97	2.68
1.75V	173	121	96.5	58.2	35.3	21.1	13.2	10.8	10.2	6.40	4.91	2.57
1.80V	154	113	91.2	56.8	34.7	20.8	13.1	10.7	10.2	6.37	4.84	2.50
1.85V	136	105	85.9	55.4	34.1	20.5	12.9	10.6	10.1	6.37	4.76	2.42

All mentioned values are average values.

Temperature effects curve



Storage characteristic



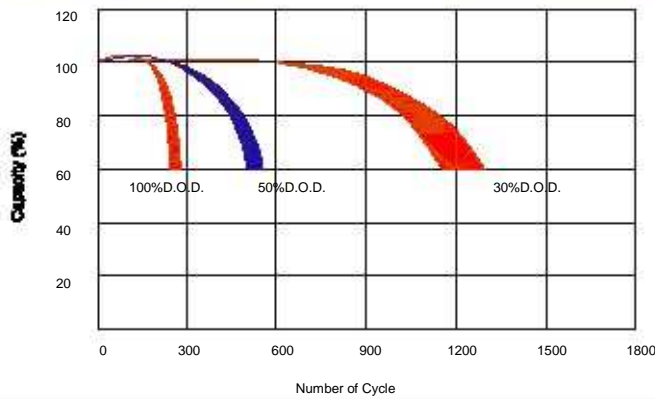
Supplementary charge required (Carry out supplementary charge before use if 1 00% capacity is requires)

Supplementary charge required before use. This supplementary charge will help to recover the capacity and should be made as early as possible.

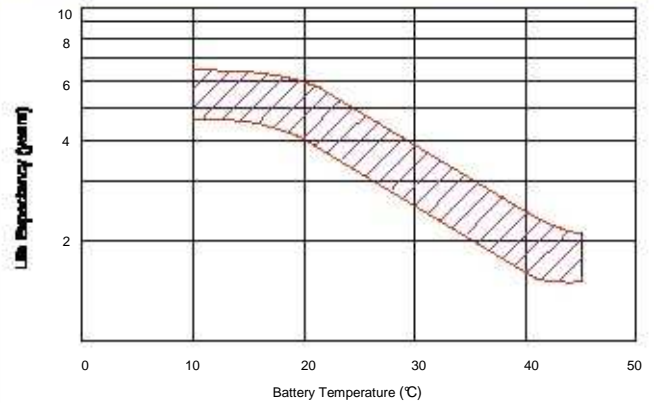
Supplementary charge may be ten fold to recover the capacity. The battery should never be left standing till this state is reached

Supplementary charge and storage guide lines

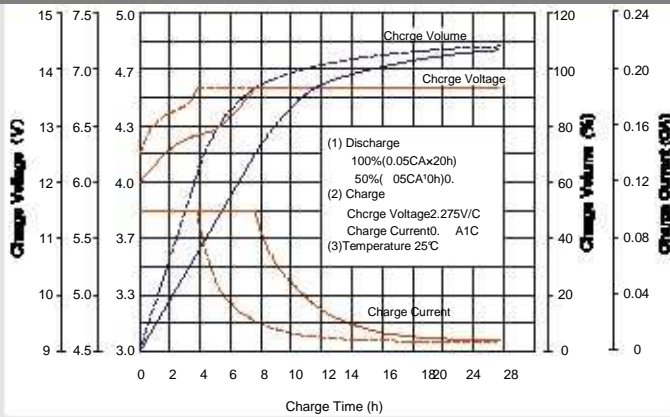
Life characteristics of cyclic use



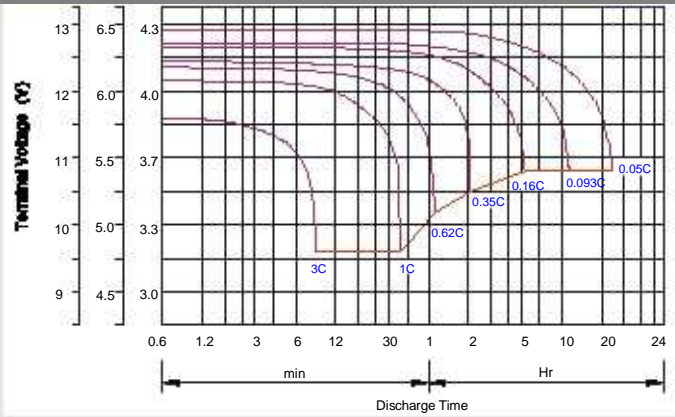
Effect to temperature on long term float life



Charge characteristic Curve for standby use



Discharge characteristic Curve



Charging Procedures

Application	Charge Voltage (V)			Max. Charge Current
	Temperature	Set point	Allowable range	
Cycle Use	25°C	14.7	14.4-15.0	0.3C
Standby	25°C	13.7	13.6-13.8	0.3C

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.75V	1.70V	1.60V
Discharge Current (A)	(A) " 0.2C	0.2C < (A) < 1.0C	(A) *1.0C

Charge the batteries at least once every six months, if they are stored at 25°C.

Charging Method:

Constant Voltage	-0.2Cx2h +14.4-15.0V,24h,Max. Current 0.3CA
Constant Current	-0.2Cx2h +0.1CAx12h
Fast	-0.2Cx2h +0.3CAx4h

Charging Procedures(6V series)

Application	Charge Voltage (V)			Max. Charge Current
	Temperature	Set point	Allowable range	
Cycle Use	25°C	7.35	7.25-7.45	0.3C
Standby	25°C	6.85	6.8-6.9	0.3C

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