



CENTRAL SECURITY DISTRIBUTION



CSD-1222

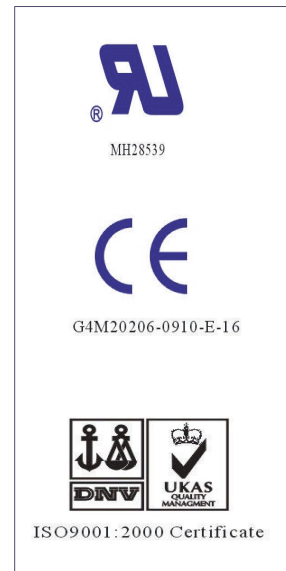
(12V22Ah)
(83.5w/cell)

AUS CELL No. 1

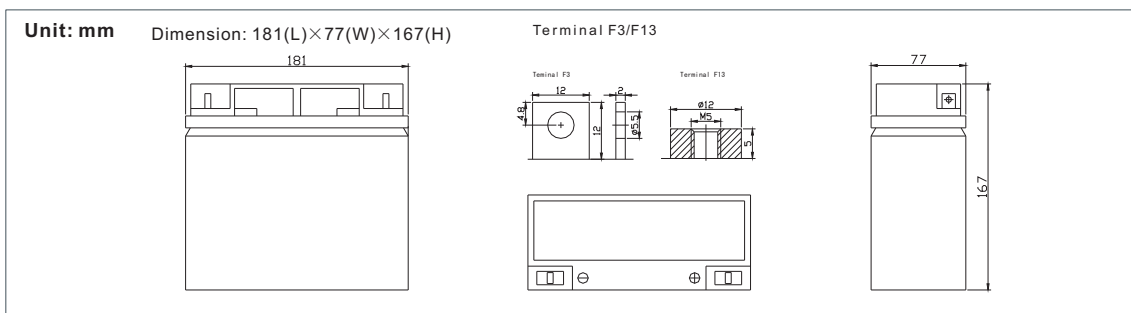
CSD-1222 is a general purpose 12V 22Ah sealed lead acid (SLA) battery with a 5 year floating design life that meets both IEC and JIS standards. Suitable for a wide range of domestic and commercial applications such as Mobility, UPS, Fire and Security systems.

Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	83.5W@15min-rate to 1.67V per cell @25°C
Weight	Approx. 5.9Kg
Max. Discharge Current	220A (5 sec)
Internal Resistance	Approx. 12 mΩ
Operating Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
Normal Operating Temperature Range	25°C±5°C
Float charging Voltage	13.7 to 13.9 VDC/unit Average at 25°C
Recommended Maximum Charging Current Limit	6.0 A
Equalization and Cycle Service	14.6 to 14.8 VDC/unit Average at 25°C
Self Discharge	Valve Regulated Lead Acid (VRLA) batteries can be stored for more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using.
Terminal	Faston tabF3/F13
Container Material	A.B.S. (UL94-HB), Flammability resistance of UL94-V2 can be available upon request.



Dimensions



Constant Current Discharge Characteristics : A(25 °C)

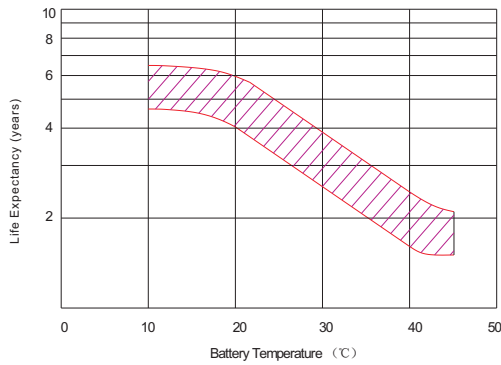
F.V/Time	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
9.60V	91.71	67.80	57.90	46.21	34.48	25.40	14.31	11.30
10.0V	88.90	66.17	56.28	45.13	33.41	24.85	14.16	11.16
10.2V	85.97	61.99	52.92	43.36	32.70	24.26	13.72	10.87
10.5V	83.02	57.36	48.35	41.15	31.36	23.45	13.22	10.75
10.8V	76.65	53.25	43.29	39.30	30.49	20.45	12.71	10.40
11.1V	70.27	49.14	38.23	37.45	29.62	18.66	12.21	10.06

Constant Power Discharge Characteristics : W(25 °C)

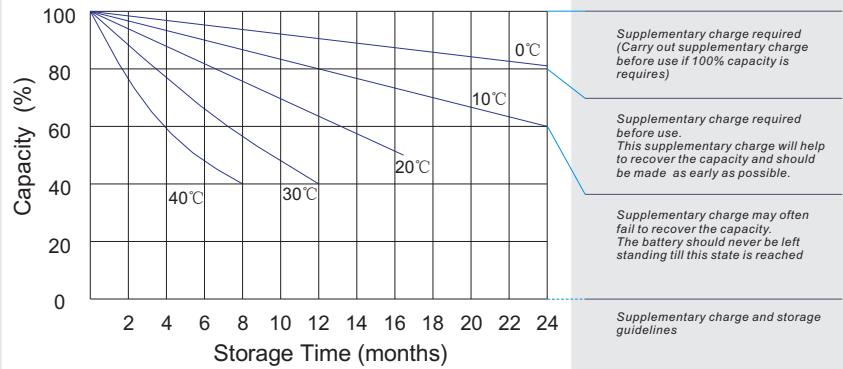
F.V/Time	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
9.60V	992.3	741.2	636.8	510.2	381.2	281.3	159.2	125.9
10.0V	971.5	725.1	619.6	501.2	372.6	276.8	157.8	124.6
10.2V	948.8	690.8	591.4	486.4	368.6	274.7	156.1	124.2
10.5V	925.3	647.9	550.3	471.3	359.5	269.6	153.4	123.7
10.8V	872.2	607.7	539.6	451.5	348.8	240.4	149.9	122.6
11.1V	819.2	567.6	529.0	431.7	338.1	223.2	146.3	121.5

All mentioned values are average values.

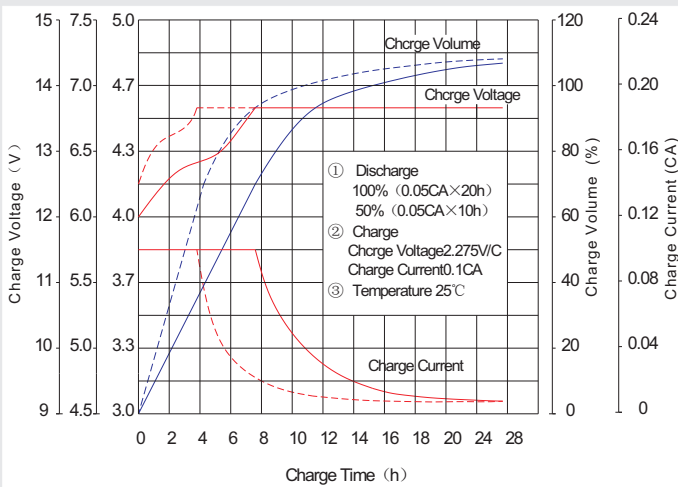
Effect of temperature on long term float life



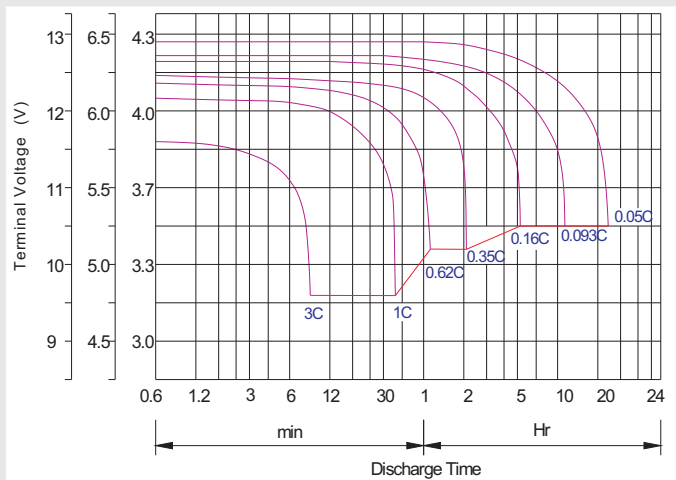
Storage characteristic



Charge characteristic Curve for standby use



Discharge characteristic Curve



Capacity Factors With Different Temperature

Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
GEL Battery	6V&12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%
	2V	60%	75%	85%	88%	92%	99%	100%	103%	105%	106%
AGM Battery	6V&12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%
	2V	55%	70%	80%	85%	92%	99%	100%	104%	108%	110%

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 + 2.4~2.5V/Cellx24h, Max. Current 0.3CA
Constant Current	-0.2Cx2h + 0.1CAx12h
Fast	-0.2Cx2h + 0.3CAx4.0h

Maintenance & Cautions

Float Service:
※ Every month, recommend inspection every battery voltage.
※ Every three months, recommend equalization charge for one time.
Equalization charge method:
Discharge: 100% rate capacity discharge.
Charge: Max. current 0.3CA, constant voltage 2.4-2.45V/Cell charge 24h.
※ Effect of temperature on float charge voltage: -3mV/°C/Cell.
※ Length of service life will be directly affected by the number of discharge cycles, depth of discharge, ambient temperature and charging voltage.

