

SOLAR DEEP CYCLE GEL BATTERY



Features:

- User Friendly
- Low Maintenance
- High Performance
- Ultra Long Life Service
- High Recovery Capability
- High Charge Acceptability
- No Water Topping Required
- Maintenance-Free Operation
- Low Pressure Venting System
- Non-Spill Sealed Construction
- Low Self-Discharge - Long Shelf Life
- Wide Operating Temperature Range



SPECIFICATIONS	EUR20012 12V 200AH
Cells Per Unit	6
Voltage Per Unit	12
Capacity	200Ah@10hr-rateto1.80Vpercell@25 °C
Max. Discharge Current	1200A (5 sec)
Internal Resistance	Approx.2.6 mΩ
Operating Temperature Range	Discharge: -40°C ~50°C Charge: -20°C ~50°C Storage: -20°C ~50°C
Normal Operating Temperature Range	25°C±5°C
Float charging Voltage	13.50 to 13.80V DC/unit Average at 25°C
Max. Charging Current	50A
Equalization and Cycle service	14.70 to 15.00V DC/unit Average at 25°C
Self Discharge	The batteries can be stored for more than 6 months at 25°C. Please charge batteries before using. For high temperature, the time interval will be shorter.
Terminal	T9/T14
Constainer Material	ABS(UL94-HB) Flammability resistance of UL94-V0 is available on request.
Box Dimension	522 x 236 x 238 mm
Product Weight	N. W - 64 KG / G. W - 64.5 KG

APPLICATION

- Electric tools
- Vehicle in place of walking
- Lawn mowers
- Golf trolleys and golf cart
- Portable apparatus, lights and instruments;
- Electric toys
- Illumination light
- Fire alarms
- Portable power
- Wheelchairs
- Medical equipments.



UPS SYSTEM



EMERGENCY LIGHTING



GENERAL PURPOSE



FIRE & SECURITY



MEDICAL



Constant Current Discharge Characteristics Unit:A(25°C,77°F)

F.V/Time	5min	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V/cell	570.0	451.9	345.1	208.5	152.6	112.5	55.7	34.5	20.6	10.7
1.65V/cell	546.8	409.4	337.7	204.8	150.9	111.5	55.5	34.4	20.5	10.5
1.70V/cell	496.3	395.1	332.8	203.4	149.1	110.5	55.2	34.2	20.2	10.4
1.75V/cell	448.2	363.8	323.4	201.6	144.3	110.0	55.0	34.0	20.0	10.2
1.80V/cell	407.6	337.9	300.1	189.7	142.9	104.5	51.0	32.5	17.5	9.5

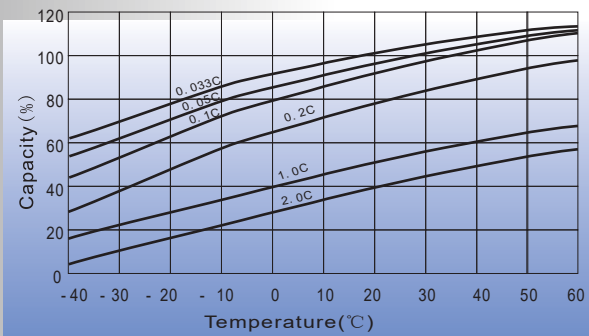
Constant Power Discharge Characteristics Unit:W(25°C,77°F)

F.V/Time	5min	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V/cell	940.8	725.7	641.8	399.1	301.0	212.7	105.3	65.1	40.9	21.5
1.65V/cell	901.6	721.3	637.7	387.0	298.3	210.7	104.2	65.0	40.4	20.4
1.70V/cell	842.8	703.7	625.3	379.0	290.3	209.6	103.6	64.4	40.1	20.3
1.75V/cell	784.0	659.7	584.2	358.8	287.7	207.5	103.3	64.2	39.8	20.2
1.80V/cell	705.6	615.8	551.3	354.8	279.6	197.2	95.8	61.1	35.1	19.0

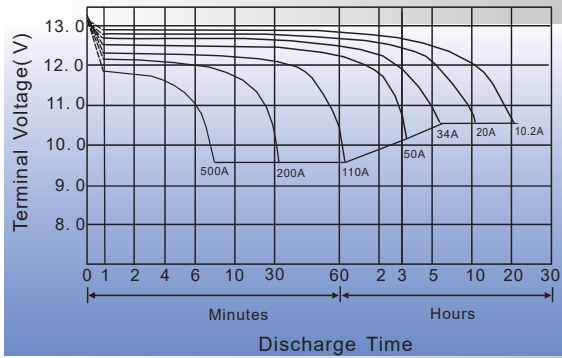
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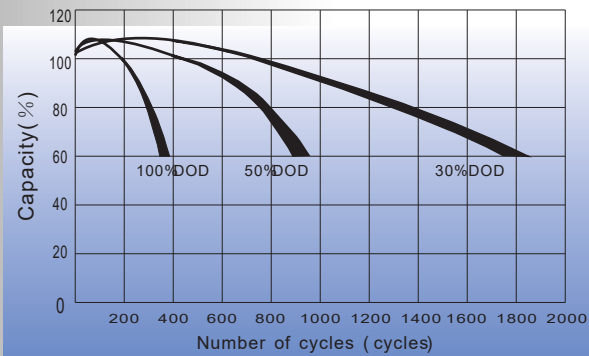
TEMPERATURE EFFECTS CURVE



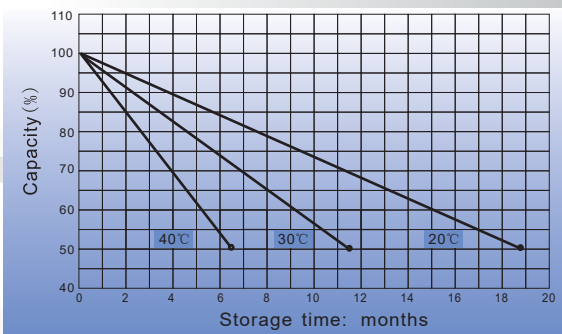
DISCHARGE TIME VS. DISCHARGE CURRENT (25°C)



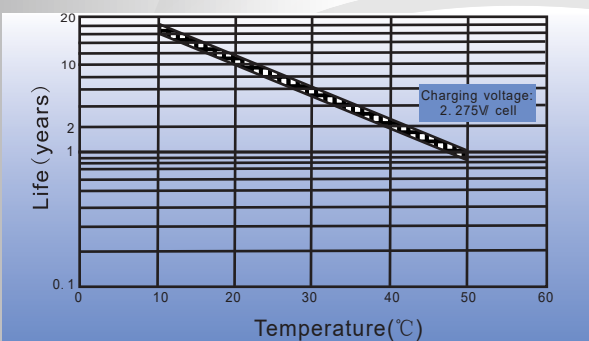
LIFE CHARACTERISTICS OF CYCLIC USE



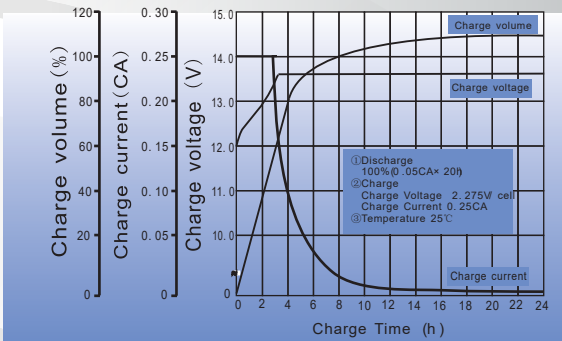
SELF-DISCHARGE CHARACTERISTIC



EFFECT OF TEMPERATURE ON LONG TERM FLOAT LIFE



CHARGE CHARACTERISTIC CURVE FOR STANDBY USE



Charging Procedures

Application	Charge Voltage (V/cell)			Max. Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25°C	2.475	2.45~2.50	0.25C
Standby Use	25°C	2.275	2.25~2.30	

Charge the batteries at least once every 6 months, if they are stored at 25 °C.

Charging Method

Constant Voltage	14.7~15.0V, 5~11h, Max. Current 0.25CA
Constant Current	0.1CA×5h
Fast	0.25CA×1.7h