

SOLAR DEEP CYCLE SLIM 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

EURO 150 - 12 12V 150Ah

Cells Per Unit	6
Voltage Per Unit	12
Capacity	150Ah@10hr-rate to 1.80V per cell@25°C
Weight	Approx. 44.5kg
Max. Discharge Current	1200A (5sec)
Internal Resistance	Approx. 4.2mΩ
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	37.5A
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	T13
Constainer Material	ABS(UL94-HB) Flammability resistance of UL94-V0 is available on request.

APPLICATION

- For standard 19 inches or 23 inches power cabinets
- Network connection equipment of communication system
- Power system of special network or local area network
- UPS, standby power supply
- Power station systems
- Railway and marine systems



UPS SYSTEM



EMERGENCY LIGHTING



GENERAL PURPOSE



FIRE & SECURITY



MEDICAL



ISO9001

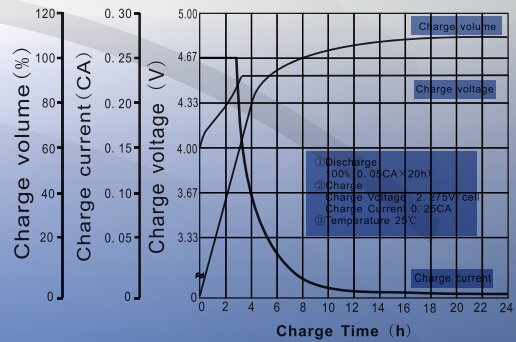
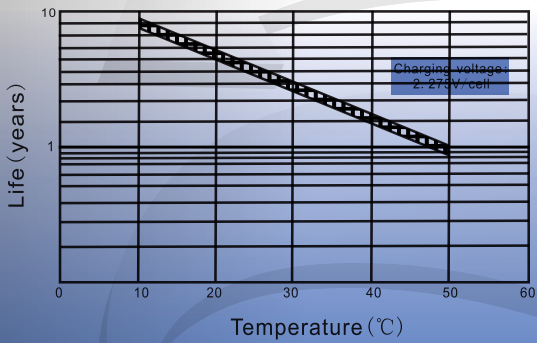
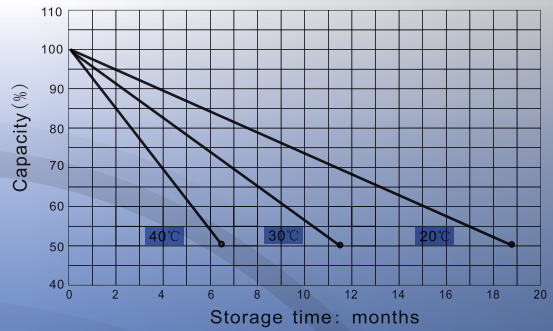
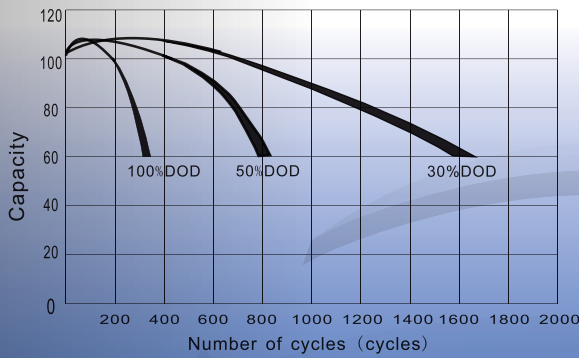
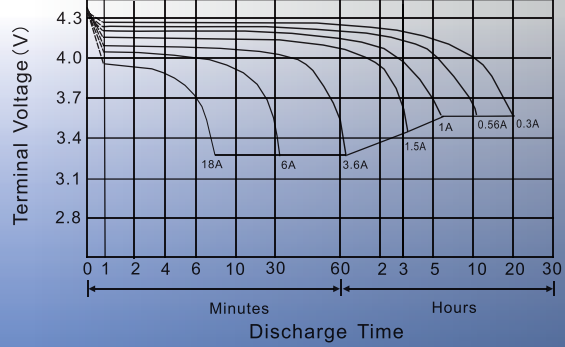
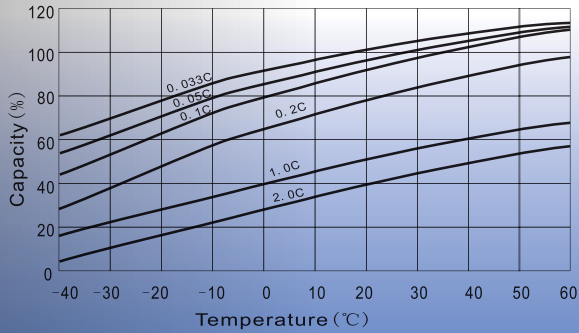
Constant Current Discharge Characteristics Unit:A(25 °C, 77°F)

F.V/Time	5min	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V/cell	422.3	300.4	216.8	131.0	95.8	84.4	38.3	25.9	15.5	8.0
1.65V/cell	405.1	272.1	212.1	128.6	94.8	83.6	38.1	25.9	15.4	7.9
1.70V/cell	367.7	262.6	209.0	127.7	93.7	82.9	37.9	25.5	15.3	7.8
1.75V/cell	332.1	241.8	203.1	126.7	90.7	82.5	37.5	25.5	15.2	7.7
1.80V/cell	302.0	224.6	188.5	119.1	89.7	78.4	35.6	24.4	15.0	7.6

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	697.0	479.2	377.5	239.6	180.6	164.8	81.6	50.4	30.0	15.8
1.65V/cell	667.9	476.2	375.1	232.3	179.1	163.2	80.7	50.3	29.6	15.4
1.70V/cell	624.4	464.6	367.8	227.5	174.2	162.4	80.3	49.9	29.4	15.1
1.75V/cell	580.8	435.6	343.6	215.4	172.7	160.8	80.0	49.7	29.2	14.8
1.80V/cell	522.7	406.6	324.3	213.0	167.8	152.8	74.3	47.4	28.7	14.0

SOLAR DEEP CYCLE SLIM GEL BATTERY



Charging Procedures

Application	Charge Voltage (V/cell)			Max.Charge Current
	Temperature	Set Point	Allow able Range	
Cycle Use	25°C	2.475	2.45~2.50	0.3C
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	4.90~5.00V, 5~11h, Max. Current 0.3CA
Constant Current	0.1CA×5h
Fast	0.3CA×1.7h

Discharge Current VS. Discharge Voltage

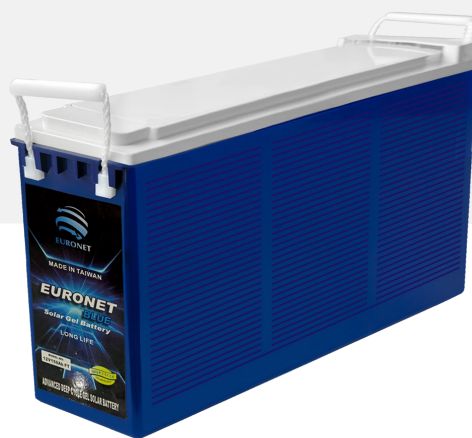
Final Discharge Voltage V/cell	1.75	1.7	1.6	1.3
Discharge Current(A)	0.2C > (A)	0.2C < (A) < 0.5C	0.5C < (A) < 1.0C	(A) > 1.0C

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SPECIFICATIONS	EURO 150 - 12 12V 150Ah
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Voltage Per Unit	12
Capacity	150Ah@10hr-rate to 1.80V per cell@25°C
Weight	Approx. 44.5kg
Max. Discharge Current	1200A (5sec)
Internal Resistance	Approx. 4.2mΩ
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	37.5A
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	T13
Constainer Material	ABS(UL94-HB) Flammability resistance of UL94-V0 is available on request.

APPLICATION

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GENERAL PURPOSE



FIRE & SECURITY



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ISO9001

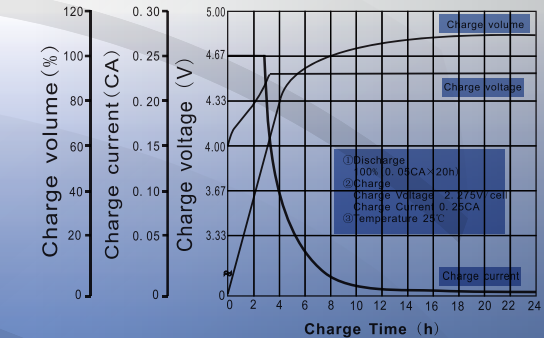
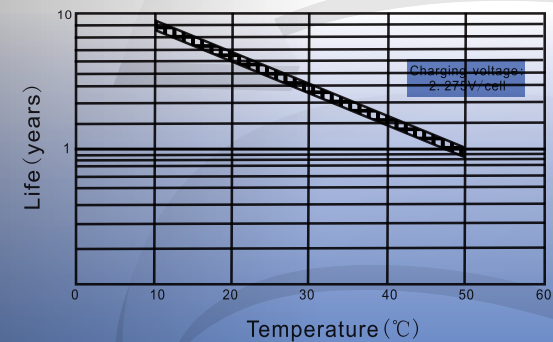
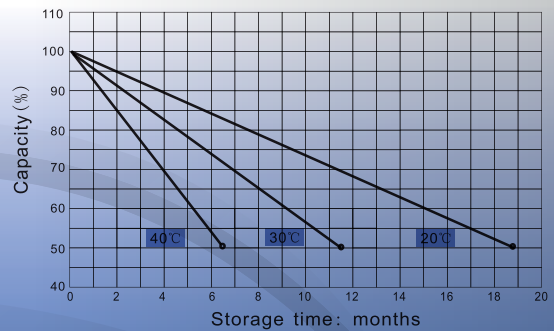
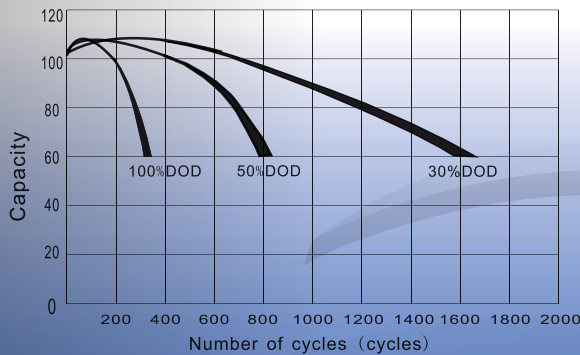
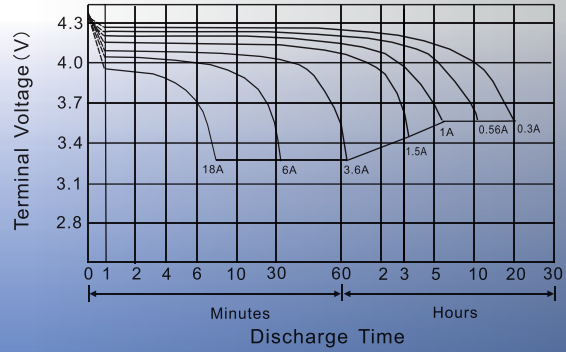
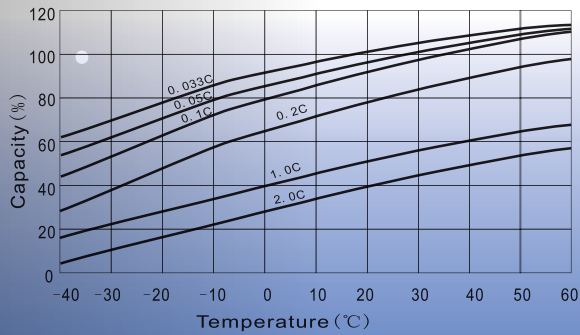
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Constant Power Discharge Characteristics Unit:W(25 °C,77°F)

F.V/Time	5min	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V/cell	697.0	479.2	377.5	239.6	180.6	164.8	81.6	50.4	30.0	15.8
1.65V/cell	667.9	476.2	375.1	232.3	179.1	163.2	80.7	50.3	29.6	15.4
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Constant Voltage	4.90~5.00V, 5~11h, Max. Current 0.3CA
Constant Current	0.1CA×5h
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Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.75	1.7	1.6	1.3
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SPECIFICATIONS

EURO 200 - 12 12V 200Ah

Cells Per Unit	6
Voltage Per Unit	12
Capacity	200Ah@100hr-rate to 1.90V per cell@25°C
Weight	Approx. 52kg
Max. Discharge Current	1200A (5sec)
Internal Resistance	Approx. 3.5mΩ
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	50.0A
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	T13
Constainer Material	ABS(UL94-HB) Flammability resistance of UL94-V0 is available on request.
Box Dimension	561 x 316 x 125 mm

APPLICATION

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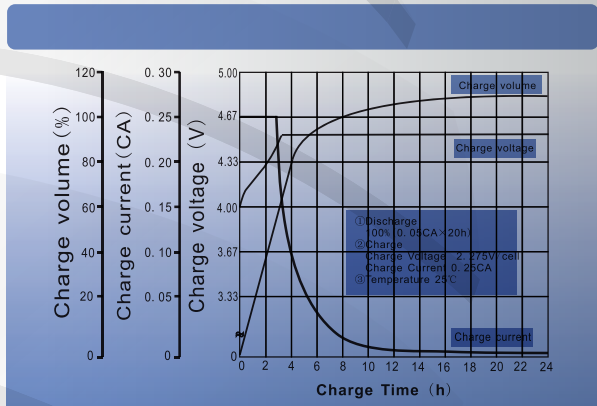
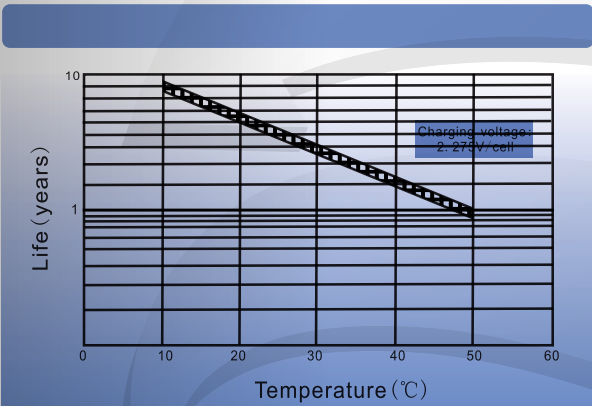
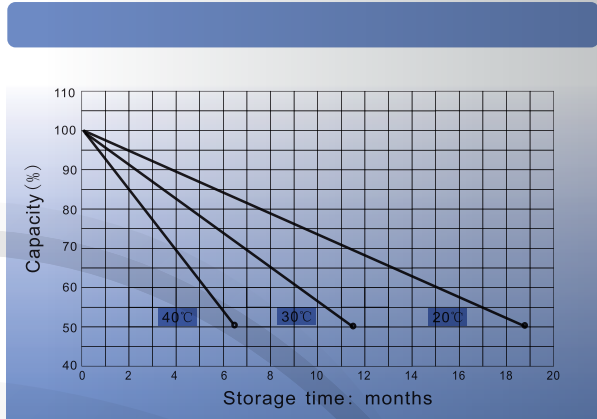
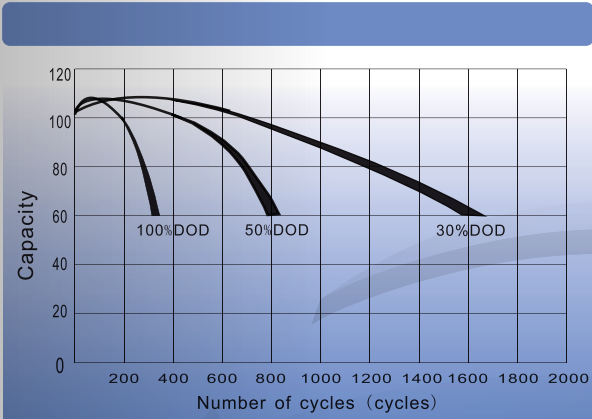
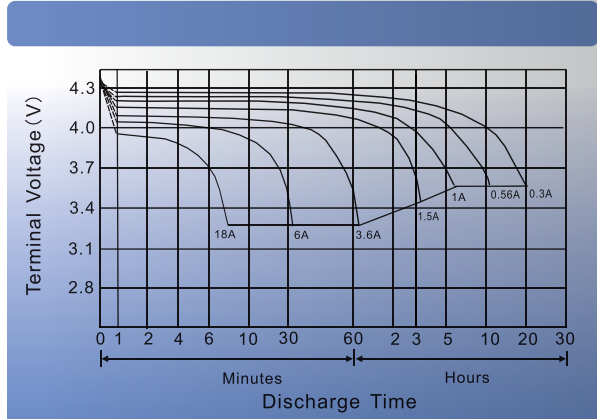
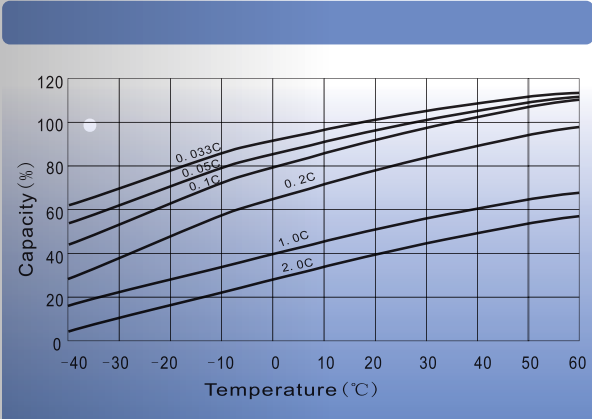
Constant Current Discharge Characteristics Unit:A(25 °C,77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h	100h
10.20V	158.7	138.3	111.5	67.2	49.7	37.8	33.3	22.9	18.4	10.1	2.28
10.50V	157.5	137.1	111.3	67	49.5	37.6	33	22.7	18.2	9.9	2.23
10.80V	149.6	130.5	106	63.7	46.7	35.7	31.2	21.5	17.8	9.5	2.19
11.10V	143.3	123.5	100.8	60.7	44.6	33.8	29.4	20.3	17	9.1	2.12
11.40V	128.8	111.6	90.5	54.8	40.1	30.3	26.4	18.4	15.2	8.4	2.05

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

F.V/Time	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h	100h
10.20V	2186	1620	1438	838	618	471	410	287	239	117	28.5
10.50V	2165	1579	1415	826	609	464	403	278	233	117	28.2
10.80V	1967	1483	1288	789	581	443	387	264	222	114	27.8
11.10V	1633	1228	1065	763	562	427	374	256	214	110	27.1
11.40V	1300	979	845	698	513	390	342	236	198	101	26.0

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