

HES
Sun. Energy. Life.

**ENERGY STORAGE
BATTERY**

HES
Sun. Energy. Life.

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太阳能/风能专用胶体储能蓄电池
SOLAR POWER AND WIND POWER STORAGE GEL BATTERY

CHARGING INSTRUCTION		Initial Current
Application	13.5-13.8V	Less than 15A
Floating use	14.4-14.8V	
Cycle use		

WARNING
 • Risk of fire, explosion, or burns.
 • Do not short the Battery terminals.
 • Do not disassemble, heat above 50°C, or incinerate.

HUAWEI POWER SOURCE CO., LTD.
HONGKONG OUTDOOR POWER SOURCE CO., LTD.

OT 65-12(GEL)
(12V65Ah10HR)

CE ISO9001
ISO14001

CE ISO14001
OHSAS18001

ISO 9001
ISO 14001
OHSAS 18001

R&D CENTER



To keep improving the quality of product, the company has introduced the advanced equipment and instrument from home and abroad as well as has set up the R & D center and has achieved a dozen of patent rights, which lays the solid foundation for making the enterprise become the most competitive leading battery manufacturer.



PRODUCTION LINE

APPLICATIONS



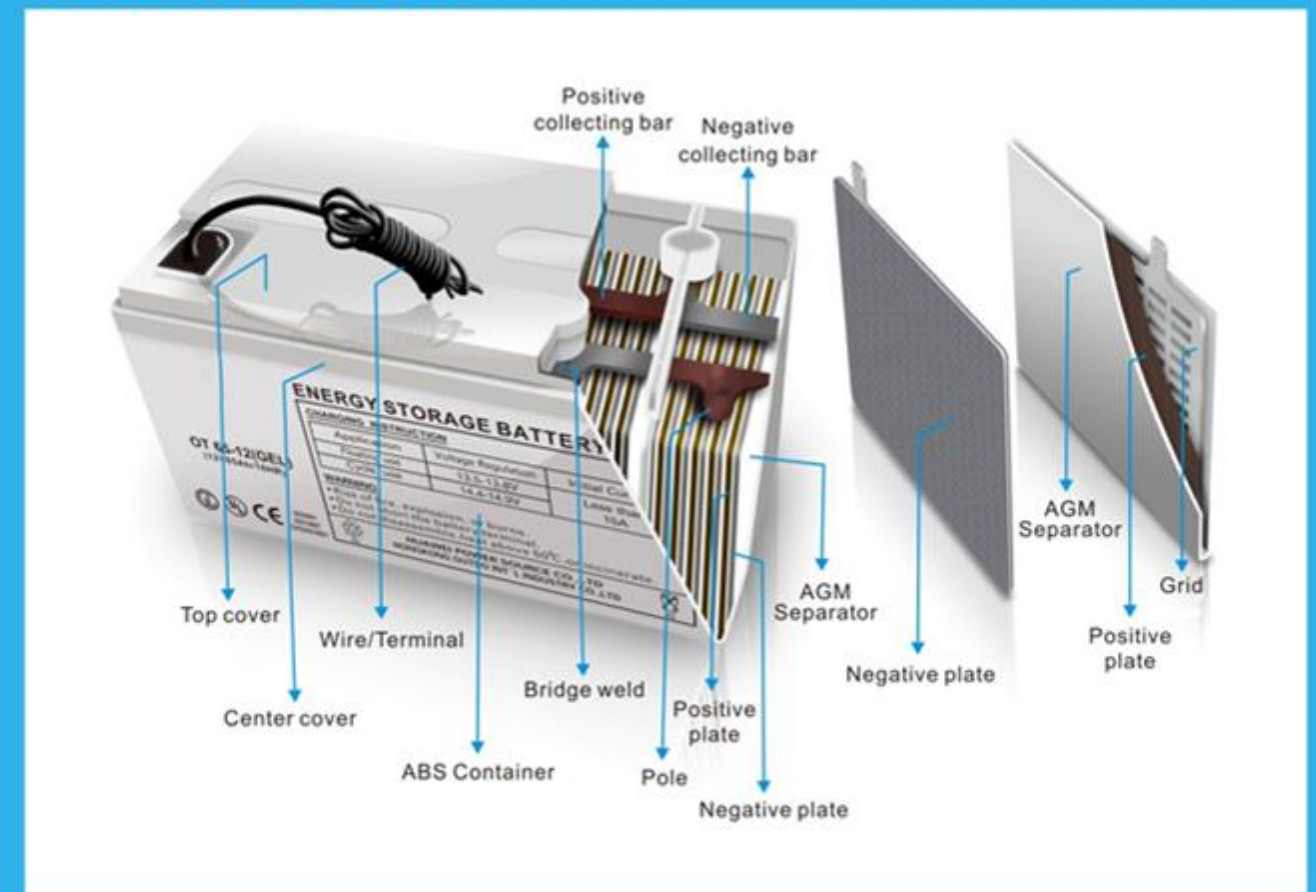
Solar power off-grid systems
 Wind power systems
 Wind and PV hybrid power systems
 Solar power energy storage systems for domestic use
 Solar power street lighting
 Traffic lights
 Navigation lights
 Unattended highways
 Railway communication power supply and some other cycle use DC energy storage power applications.



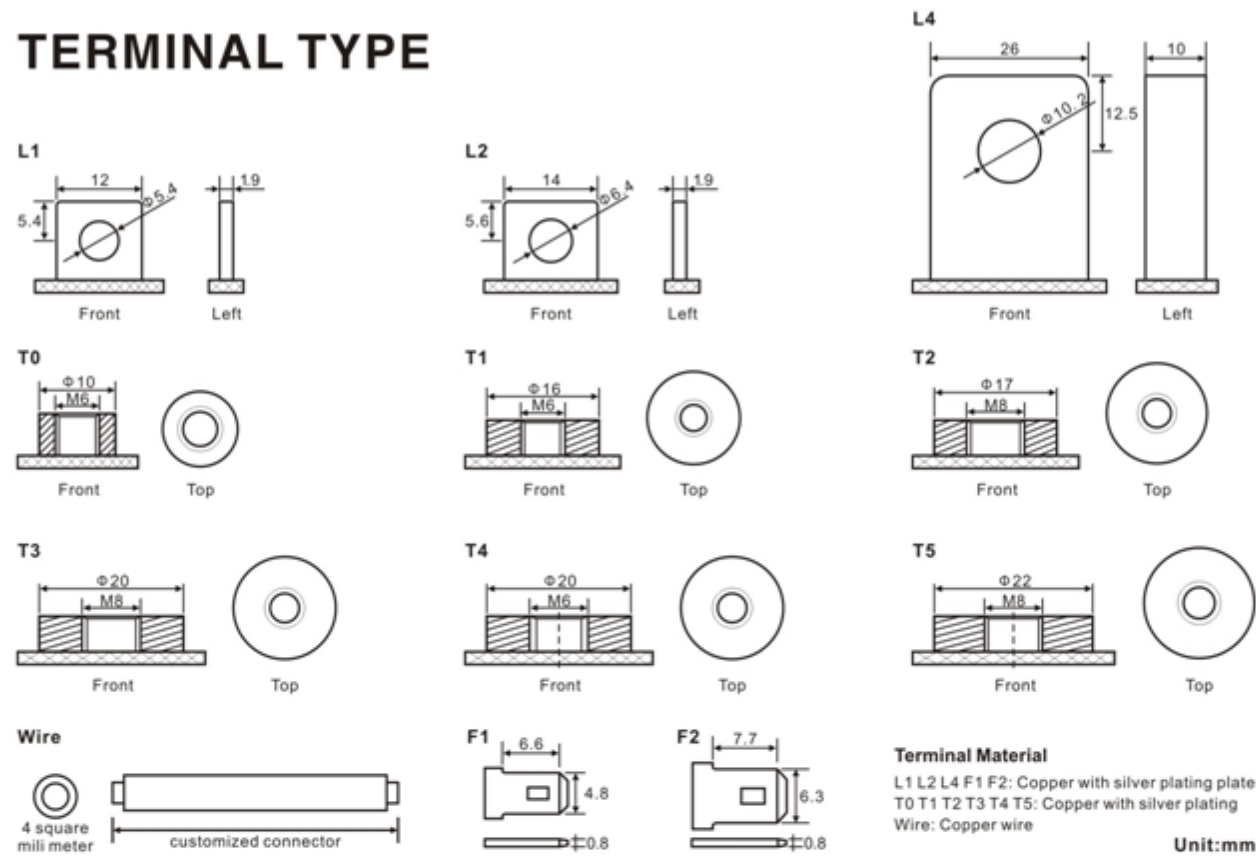
FEATURES

1. Adopting low-Calcium & high-Tin tin alloy grid, high anti-corrosive performance, lower battery gas evolution;
2. With special lead paste formula, our batteries have good endurance cycle capability and charging acceptance and strong deep cycle good recovery performance after deep cycle use/recoverability;
3. The fumed silica that is adopted as the key raw material of gel electrolyte is produced in Germany;
4. Batteries have long service life, good deep discharging cycle capability;
5. Gel batteries have better heat dissipation than AGM sealed batteries, reduced the possibility of not easy to have thermal runaway;
6. The self-discharge rate gel batteries is less than 1%/month;
7. The uniform part of gel battery electrolyte inside battery equally distributed has no layering phenomenon and the electrolyte is not readily not easy to dry up;
8. Battery producing adopts high purity raw material, advanced manufacturing equipment to ensure battery performance stability and consistency;
9. Battery electrolyte contains silica solludox, so there is no dissociative acid or layering phenomenon inside, ensuring the good low temperature performance and service life of batteries;
10. Battery The design life of standby use life of batteries at 25°C is over 10 years.

CONFIGURATION



TERMINAL TYPE



2V Series Parameter Table

No.	Model No.	Volt	Capacity (10 AH) 25°C	Appx Dimension (mm)				Retention Capacity (AH)25°C				Approx. weight (Kg)	Internal resistance ±0.1mΩ	Terminal	
				L ±2	W ±2	H ±2	TH ±2	1H 1.75V /Cell	3H 1.80V /Cell	5H 1.80V /Cell	10H 1.80V /Cell			Type	Q'ty
01	OT100-2(GEL)	2	100	171	72	206	214	55.0	75.0	85.0	100.0	5.9	0.80	T2	2
02	OT150-2(GEL)	2	150	172	102	205	228	82.5	112.5	127.5	150.0	11.0	0.66	T3	2
03	OT200-2(GEL)	2	200	173	111	328	365	110.0	150.0	170.0	200.0	13.9	0.64	T5	2
04	OT300-2(GEL)	2	300	171	151	333	365	165.0	225.0	255.0	300.0	19.2	0.57	T5	2
05	OT400-2(GEL)	2	400	211	175	328	367	220.0	300.0	340.0	400.0	26.5	0.55	T5	4
06	OT500-2(GEL)	2	500	242	173	329	367	275.0	375.0	425.0	500.0	33.2	0.52	T5	4
07	OT600-2(GEL)	2	600	301	175	331	365	330.0	450.0	510.0	600.0	38.2	0.50	T5	4
08	OT800-2(GEL)	2	800	409	177	330	365	440.0	600.0	680.0	800.0	53.2	0.42	T5	8
09	OT1000-2(GEL)	2	1000	475	175	328	365	550.0	750.0	850.0	1000.0	66.5	0.40	T5	8
10	OT1500-2(GEL)	2	1500	401	351	343	382	825.0	1125.0	1275.0	1500.0	98.5	0.36	L4	8
11	OT2000-2(GEL)	2	2000	491	351	343	383	1100.0	1500.0	1700.0	2000.0	127.0	0.34	L4	16
12	OT3000-2(GEL)	2	3000	712	353	341	383	1650.0	2250.0	2550.0	3000.0	188.5	0.30	L4	16

6V/12V Series Parameter Table

6V/12V Mini Capacity Series																
No.	Model No.	Volt	Capacity (20 AH) 25°C	Appx Dimension (mm)				Retention Capacity (AH)25°C					App. weight (Kg)	Internal resistance mΩ	Terminal	
				L ±2	W ±2	H ±2	TH ±2	1H 1.75V /Cell	3H 1.80V /Cell	5H 1.80V /Cell	10H 1.80V /Cell	20H 1.75V /Cell			Type	Q'ty
13	OT4.5-6(GEL)	6	4.5	70	48	100	106	2.5	3.2	3.6	4.0	4.5	0.82	16.0±2.0	F1	2
14	OT7-6(GEL)	6	7.0	151	35	94	100	3.9	5.3	6.0	6.8	7.0	1.23	11.0±2.0	F1	2
15	OT12-6(GEL)	6	12.0	151	51	94	100	6.6	9.0	10.2	11.4	12.0	1.85	8.0±2.0	F1	2
16	OT4.5-12(GEL)	12	4.5	90	70	102	108	2.5	3.2	3.6	4.0	4.5	1.61	38.0±2.0	F1	2
17	OT7-12(GEL)	12	7.0	151	65	94	100	3.9	5.3	6.0	6.8	7.0	2.19	24.0±2.0	F2	2
18	OT12-12(GEL)	12	12.0	151	98	96	100	6.6	9.0	10.2	11.4	12.0	3.68	14.0±2.0	F2	2
19	OT17-12(GEL)	12	17.0	181	77	167	167	9.8	12.9	14.5	16.5	17.0	5.22	11.0±2.0	L1	2
6V/12V Medium and Large Capacity Series																
No.	Model No.	Volt	Capacity (10 AH) 25°C	Appx Dimension (mm)				Retention Capacity (AH)25°C					App. weight (Kg)	Internal resistance mΩ	Terminal	
				L ±2	W ±2	H ±2	TH ±2	1H 1.75V /Cell	3H 1.80V /Cell	5H 1.80V /Cell	10H 1.80V /Cell	20H 1.75V /Cell			Type	Q'ty
20	OT100-6(GEL)	6	100.0	195	171	207	212	55.0	75.0	85.0	100.0	105.0	14.0	2.0±0.5	T3	2
21	OT24-12(GEL)	12	24.0	174	166	125	125	13.2	18.0	20.4	24.0	25.6	8.1	10±0.5	T0/L2	2
22	OT33-12(GEL)	12	33.0	194	132	170	174	18.2	24.8	28.0	33.0	34.7	10.9	8.5±0.8	T1	2
23	OT38-12(GEL)	12	38.0	196	166	176	176	20.9	28.5	32.3	38.0	40.0	14.1	7.0±0.8	T1	2
24	OT38-12W(GEL)	12	38.0	196	166	176	176	22.0	30.0	34.0	40.0	42.0	14.1	7.0±0.8	wire	2
25	OT55-12(GEL)	12	55.0	228	137	211	214	30.3	41.3	46.8	55.0	57.8	16.8	6.0±0.8	T1	2
26	OT55-12W(GEL)	12	55.0	228	137	221	221	30.3	41.3	46.8	55.0	57.8	16.8	6.0±0.8	wire	2
27	OT65-12(GEL)	12	65.0	350	167	173	173	35.8	48.8	55.3	65.0	68.3	23.1	5.6±0.2	T3/T4	2
28	OT65-12W(GEL)	12	65.0	350	167	173	173	35.8	48.8	55.3	65.0	68.3	23.1	5.6±0.2	wire	2
29	OT75-12(GEL)	12	75.0	260	168	212	216	41.2	56.2	63.7	75.0	78.8	22.7	4.8±0.6	T1	2
30	OT75-12W(GEL)	12	75.0	260	168	222	222	41.2	56.2	63.7	75.0	78.8	22.7	4.8±0.6	wire	2
31	OT85-12(GEL)	12	85.0	260	168	212	216	46.7	63.7	72.2	85.0	89.3	25.2	4.5±0.6	T1	2
32	OT85-12W(GEL)	12	85.0	260	168	222	222	46.7	63.7	72.2	85.0	89.3	25.2	4.5±0.6	wire	2
33	OT90-12(GEL)	12	90.0	307	169	208	213	49.5	67.5	76.5	90.0	94.5	26.8	4.0±0.5	T3	2
34	OT100-12(GEL)	12	100.0	331	173	216	220	55.0	75.0	85.0	100.0	105.0	32.5	4.0±0.5	T3	2
35	OT100-12W(GEL)	12	100.0	331	173	216	216	55.0	75.0	85.0	100.0	105.0	32.5	4.0±0.5	wire	2
36	OT120-12(GEL)	12	120.0	406	172	208	237	66.0	90.0	102.0	120.0	126.0	38.0	3.6±0.5	T3	2
37	OT120-12W(GEL)	12	120.0	406	172	208	237	66.0	90.0	102.0	120.0	126.0	38.0	3.6±0.5	wire	2
38	OT150-12(GEL)	12	150.0	484	170	241	241	82.5	112.5	127.5	150.0	157.5	47.5	3.4±0.5	T3	2
39	OT150-12W(GEL)	12	150.0	484	170	241	241	82.5	112.5	127.5	150.0	157.5	47.5	3.4±0.5	wire	2
40	OT200-12(GEL)	12	200.0	522	239	217	222	110.0	150.0	170.0	200.0	210.0	64.1	2.5±0.5	T3	2
41	OT200-12W(GEL)	12	200.0	522	239	217	217	110.0	150.0	170.0	200.0	210.0	64.1	2.5±0.5	wire	2
42	OT250-12W(GEL)	12	250.0	520	269	220	220	137.5	187.5	212.5	250.0	262.5	71.2	2.4±0.5	wire	2

Constant Power (Watt) Discharging Data

2V Series												
No.	Mode No.	Cut-off Voltage /Cell	Watt/Cell(W) Discharging Duration (min.)			Watt/Cell(W) Discharging Duration(hour)						
			30	45	60	1.5	2.0	3.0	4.0	5.0	8.0	10.0
01	OT100-2(GEL)	1.60V	187.0	149.6	112.2	93.5	72.9	58.9	43.0	35.5	25.8	20.6
		1.65V	181.4	145.9	108.5	89.8	71.1	57.0	42.1	34.6	25.2	20.0
		1.70V	177.7	142.1	104.7	86.0	70.1	52.4	41.1	33.7	24.5	19.6
		1.75V	173.9	138.4	102.9	84.2	68.3	49.6	40.2	32.7	23.7	19.3
		1.80V	170.2	134.6	101.0	80.4	65.5	46.8	39.3	31.8	23.0	18.7
		1.85V	162.7	129.0	97.2	74.8	62.6	44.9	37.4	29.9	22.1	18.1
02	OT150-2(GEL)	1.60V	280.5	224.4	168.3	140.3	109.4	88.4	64.5	53.3	38.7	30.9
		1.65V	272.1	218.8	162.7	134.6	106.6	85.6	63.1	51.9	37.9	30.0
		1.70V	266.5	213.2	157.1	129.0	105.2	78.5	61.7	50.5	36.7	29.5
		1.75V	260.9	207.6	154.3	126.2	102.4	74.3	60.3	49.1	35.6	28.9
		1.80V	255.3	202.0	151.5	120.6	98.2	70.1	58.9	47.7	34.5	28.1
		1.85V	244.0	193.5	145.9	112.2	94.0	67.3	56.1	44.9	33.1	27.2
03	OT200-2(GEL)	1.60V	374.0	299.2	224.4	187.0	145.9	117.8	86.0	71.1	51.6	41.1
		1.65V	362.8	291.7	216.9	179.5	142.1	114.1	84.2	69.2	50.5	40.0
		1.70V	355.3	284.2	209.4	172.0	140.3	104.7	82.3	67.3	49.0	39.3
		1.75V	347.8	276.8	205.7	168.3	136.5	99.1	80.4	65.5	47.5	38.5
		1.80V	340.3	269.3	202.0	160.8	130.9	93.5	78.5	63.6	46.0	37.4
		1.85V	325.4	258.1	194.5	149.6	125.3	89.8	74.8	59.8	44.1	36.3
04	OT300-2(GEL)	1.60V	561.0	448.8	336.6	280.5	218.8	176.7	129.0	106.6	77.4	61.7
		1.65V	544.2	437.6	325.4	269.3	213.2	171.1	126.2	103.8	75.7	60.0
		1.70V	533.0	426.4	314.2	258.1	210.4	157.1	123.4	101.0	73.5	58.9
		1.75V	521.7	415.1	308.6	252.5	204.8	148.7	120.6	98.2	71.2	57.8
		1.80V	510.5	403.9	302.9	241.2	196.4	140.3	117.8	95.4	69.0	56.1
		1.85V	488.1	387.1	291.7	224.4	187.9	134.6	112.2	89.8	66.2	54.4
05	OT400-2(GEL)	1.60V	748.0	598.4	448.8	374.0	291.7	235.6	172.0	142.1	103.2	82.3
		1.65V	725.6	583.4	433.8	359.0	284.2	228.1	168.3	138.4	101.0	80.0
		1.70V	710.6	568.5	418.9	344.1	280.5	209.4	164.6	134.6	98.0	78.5
		1.75V	695.6	553.5	411.4	336.6	273.0	198.2	160.8	130.9	95.0	77.0
		1.80V	680.7	538.6	403.9	321.6	261.8	187.0	157.1	127.2	92.0	74.8
		1.85V	650.8	516.1	389.0	299.2	250.6	179.5	149.6	119.7	88.3	72.6
06	OT500-2(GEL)	1.60V	935.0	748.0	561.0	467.5	364.7	294.5	215.1	177.7	129.0	102.9
		1.65V	907.0	729.3	542.3	448.8	355.3	285.2	210.4	173.0	126.2	100.0
		1.70V	888.3	710.6	523.6	430.1	350.6	261.8	205.7	168.3	122.5	98.2
		1.75V	869.6	691.9	514.3	420.8	341.3	247.8	201.0	163.6	118.7	96.3
		1.80V	850.9	673.2	504.9	402.1	327.3	233.8	196.4	159.0	115.0	93.5
		1.85V	813.5	645.2	486.2	374.0	313.2	224.4	187.0	149.6	110.3	90.7
07	OT600-2(GEL)	1.60V	1122.0	897.6	673.2	561.0	437.6	353.4	258.1	213.2	154.8	123.4
		1.65V	1088.3	875.2	650.8	538.6	426.4	342.2	252.5	207.6	151.5	120.1
		1.70V	1065.9	852.7	628.3	516.1	420.8	314.2	246.8	202.0	147.0	117.8
		1.75V	1043.5	830.3	617.1	504.9	409.5	297.3	241.2	196.4	142.5	115.6
		1.80V	1021.0	807.8	605.9	482.5	392.7	280.5	235.6	190.7	138.0	112.2
		1.85V	976.1	774.2	583.4	448.8	375.9	269.3	224.4	179.5	132.4	108.8

2V Series												
No.	Mode No.	Cut-off Voltage /Cell	Watt/Cell(W) Discharging Duration (min.)			Watt/Cell(W) Discharging Duration(hour)						
			30	45	60	1.5	2.0	3.0	4.0	5.0	8.0	10.0
08	OT800-2(GEL)	1.60V	1496.0	1196.8	897.6	748.0	583.4	471.2	344.1	284.2	206.4	164.6
		1.65V	1451.1	1166.9	867.7	718.1	568.5	456.3	336.6	276.8	202.0	160.1
		1.70V	1421.2	1137.0	837.8	688.2	561.0	418.9	329.1	269.3	196.0	157.1
		1.75V	1391.3	1107.0	822.8	673.2	546.0	396.4	321.6	261.8	190.0	154.1
		1.80V	1361.4	1077.1	807.8	643.3	523.6	374.0	314.2	254.3	184.0	149.6
		1.85V	1301.5	1032.2	777.9	598.4	501.2	359.0	299.2	239.4	176.5	145.1
09	OT1000-2(GEL)	1.60V	1870.0	1496.0	1122.0	935.0	729.3	589.1	430.1	355.3	258.1	205.7
		1.65V	1813.9	1458.6	1084.6	897.6	710.6	570.4	420.8	346.0	252.5	200.1
		1.70V	1776.5	1421.2	1047.2	860.2	701.3	523.6	411.4	336.6	245.0	196.4
		1.75V	1739.1	1383.8	1028.5	841.5	682.6	495.6	402.1	327.3	237.5	192.6
		1.80V	1701.7	1346.4	1009.8	804.1	654.6	467.5	392.7	317.9	230.0	187.0
		1.85V	1626.9	1290.3	972.4	748.0	626.5	448.8	374.0	299.2	220.7	181.4
10	OT1500-2(GEL)	1.60V	2805.0	2244.0	1683.0	1402.5	1094.0	883.6	645.2	533.0	387.1	308.6
		1.65V	2720.9	2187.9	1626.9	1346.4	1065.9	855.5	631.1	518.9	378.7	300.1
		1.70V	2664.8	2131.8	1570.8	1290.3	1051.9	785.4	617.1	504.9	367.5	294.5
		1.75V	2608.7	2075.7	1542.8	1262.3	1023.8	743.3	603.1	490.9	356.2	288.9
		1.80V	2552.6	2019.6	1514.7	1206.2	981.8	701.3	589.1	476.9	345.0	280.5
		1.85V	2440.4	1935.5	1458.6	1122.0	939.7	673.2	561.0	448.8	331.0	272.1
11	OT2000-2(GEL)	1.60V	3740.0	2992.0	2244.0	1870.0	1458.6	1178.1	860.2	710.6	516.1	411.4
		1.65V	3627.8	2917.2	2169.2	1795.2	1421.2	1140.7	841.5	691.9	504.9	400.2
		1.70V	3553.0	2842.4	2094.4	1720.4	1402.5	1047.2	822.8	673.2	489.9	392.7
		1.75V	3478.2	2767.6	2057.0	1683.0	1365.1	991.1	804.1	654.6	475.0	385.2
		1.80V	3403.4	2692.8	2019.6	1608.2	1309.0	935.0	785.4	635.8	460.0	374.0
		1.85V	3253.8	2580.6	1944.8	1496.0	1252.9	897.6	748.0	598.4	441.3	362.8
12	OT3000-2(GEL)	1.60V	5161.2	4488.0	3366.0	2805.0	2187.9	1767.2	1290.3	1065.9	774.2	617.1
		1.65V	5032.2	4375.8	3253.8	2692.8	2131.8	1711.1	1262.3	1037.9	757.4	600.3
		1.70V	4903.1	4263.6	3141.6	2580.6	2103.8	1570.8	1234.2	1009.8	734.9	589.1
		1.75V	4774.1	4151.4	3085.5	2524.5	2047.7	1486.7	1206.2	981.8	712.5	577.8
		1.80V	4645.1	4039.2	3029.4	2412.3	1963.5	1402.5	1178.1	953.7	690.0	561.0
		1.85V	4451.5	3870.9	2917.2	2244.0	1879.4	1346.4	1122.0	897.6	662.0	544.2
6V/12V Small Capacity Series												
No.	Mode No.	Cut-off Voltage /Cell	Watt/Cell(W) Discharging Duration(min.)						Watt/Cell(W) Discharging Duration (hour)			
			5	10	15	30	45	60	2	3	5	
13	OT4.5-6(GEL)	1.60V	26.80	17.70	13.95	8.37	6.75	5.46	2.73	2.17	1.42	
		1.65V	26.40	17.20	13.77	8.27	6.69	5.37	2.69	2.16	1.39	
		1.70V	25.80	16.70	13.68	8.10	6.61	5.28	2.67	2.15	1.38	
		1.75V	25.30	16.20	13.50	7.92	6.52	5.19	2.62	2.12	1.37	
		1.80V	24.60	15.70	12.96	7.56	6.37	5.01	2.58	2.08	1.35	
		1.85V	23.80	15.20	12.75	7.35	6.24	4.92	2.54	2.05	1.33	
14	OT7-6(GEL)	1.60V	41.90	27.50	21.60	13.01	10.49	8.48	4.06	3.38	2.20	
		1.65V	41.00	26.60	21.42	12.86	10.40	8.34	4.18	3.35	2.17	
		1.70V	40.10	25.80	21.15	12.60	10.27	8.21	4.14	3.33	2.14	
		1.75V	39.20	25.20	20.88	12.31	10.13	8.06	4.08	3.29	2.11	
		1.80V	38.20	24.30	20.16	11.75	9.90	7.78	4.00	3.23	2.08	
		1.85V	37.20	23.40	20.00	11.50	9.75	7.65	3.95	3.18	2.05	

6V/12V Small Capacity Series											
No.	Mode No.	Cut-off Voltage /Cell	Watt/Cell(W) Discharging Duration(min.)					Watt/Cell(W) Discharging Duration (hour)			
			5	10	15	30	45	60	2	3	5
15	OT12-6(GEL)	1.60V	72.00	47.50	37.44	22.32	18.00	13.98	7.28	5.82	3.79
		1.65V	69.80	46.10	37.17	22.05	17.82	13.81	7.21	5.78	3.75
		1.70V	68.90	44.40	36.72	21.60	17.64	13.65	7.10	5.73	3.71
		1.75V	67.80	43.40	36.27	21.15	17.37	13.49	7.01	5.69	3.67
		1.80V	65.60	42.10	34.83	20.25	17.01	13.27	6.88	5.57	3.64
16	OT4.5-12(GEL)	1.60V	26.80	17.70	13.95	8.37	6.75	5.46	2.73	2.17	1.42
		1.65V	26.40	17.20	13.77	8.27	6.69	5.37	2.69	2.16	1.39
		1.70V	25.80	16.70	13.68	8.10	6.61	5.28	2.67	2.15	1.38
		1.75V	25.30	16.20	13.50	7.92	6.52	5.19	2.62	2.12	1.37
17	OT7-12(GEL)	1.60V	45.00	31.50	24.48	13.50	10.35	8.24	4.60	3.23	2.11
		1.65V	43.20	29.70	23.58	13.05	9.90	8.05	4.46	3.17	2.07
		1.70V	41.40	28.40	22.59	12.60	9.45	7.92	4.37	3.09	2.04
		1.75V	39.60	26.60	21.69	11.97	9.00	7.78	4.23	3.00	2.00
18	OT12-12(GEL)	1.60V	72.00	47.50	37.44	22.32	18.00	13.98	7.28	5.82	3.79
		1.65V	69.80	46.10	37.17	22.05	17.82	13.81	7.21	5.78	3.75
		1.70V	68.90	44.40	36.72	21.60	17.64	13.65	7.10	5.73	3.71
		1.75V	67.80	43.40	36.27	21.15	17.37	13.49	7.01	5.69	3.67
19	OT17-12(GEL)	1.60V	103.50	64.80	54.00	33.84	25.92	18.93	10.92	8.37	5.77
		1.65V	100.80	63.00	52.65	32.67	25.20	18.66	10.81	8.26	5.62
		1.70V	99.00	61.20	51.75	32.13	24.48	18.20	10.65	8.04	5.57
		1.75V	95.40	59.40	50.40	30.78	23.67	17.75	10.51	7.96	5.50
		1.80V	88.20	56.70	48.60	29.97	22.68	17.29	10.32	7.90	5.24

6V/12V Medium and Large Capacity Series												
No.	Mode No.	Cut-off Voltage /Cell	Watt/Cell(W) Discharging Duration (min.)			Watt/Cell(W) Discharging Duration(hour)						
			30	45	60	1.5	2.0	3.0	5.0	8.0	10.0	20.0
22	OT33-12(GEL)	1.60V	58.80	42.00	36.60	28.44	24.04	16.44	11.23	7.44	6.51	3.26
		1.67V	57.46	41.16	35.67	27.72	23.58	16.29	11.07	7.29	6.45	3.21
		1.70V	56.78	40.32	34.74	26.99	23.27	15.98	10.95	7.20	6.36	3.18
		1.75V	55.44	38.64	34.12	26.51	22.80	15.67	10.76	7.10	6.27	3.15
		1.80V	53.76	37.46	33.66	26.15	22.58	15.51	10.55	6.82	6.20	3.10
		1.85V	49.56	36.12	32.57	25.31	20.63	15.04	9.46	6.45	5.74	2.95
23	OT38-12(GEL) OT38-12W(GEL)	1.60V	63.84	48.84	42.15	32.75	27.68	18.93	12.93	8.57	7.50	3.75
		1.67V	63.20	47.88	41.08	31.92	27.15	18.75	12.75	8.39	7.43	3.70
		1.70V	62.24	47.24	40.01	31.08	26.79	18.40	12.61	8.29	7.32	3.66
		1.75V	61.29	46.44	39.29	30.53	26.25	18.04	12.39	8.18	7.22	3.63
24	OT55-12(GEL) OT55-12W(GEL)	1.60V	92.40	70.69	61.01	47.40	40.07	27.40	18.72	12.41	10.86	5.43
		1.67V	91.48	69.30	59.46	46.20	39.29	27.14	18.46	12.15	10.75	5.35
		1.70V	90.09	68.38	57.90	44.99	38.78	26.63	18.25	11.99	10.60	5.30
		1.75V	88.70	67.22	56.87	44.19	38.00	26.11	17.94	11.84	10.44	5.25
25	OT65-12(GEL) OT65-12W(GEL)	1.60V	109.20	83.54	72.10	56.02	47.35	32.38	22.12	14.66	12.83	6.42
		1.67V	108.11	81.90	70.27	54.60	46.44	32.08	21.81	14.36	12.71	6.32
		1.70V	106.47	80.81	68.43	53.17	45.83	31.47	21.57	14.18	12.53	6.26
		1.75V	104.83	79.44	67.21	52.22	44.91	30.86	21.20	13.99	12.34	6.20
		1.80V	102.65	77.53	66.29	51.51	44.48	30.55	20.77	13.44	12.22	6.11
26	OT75-12(GEL) OT75-12W(GEL)	1.60V	123.48	94.46	81.53	63.35	53.54	36.62	25.01	16.58	14.51	7.25
		1.67V	122.25	92.61	79.45	61.74	52.51	36.27	24.67	16.24	14.37	7.15
		1.70V	120.39	91.38	77.38	60.12	51.82	35.58	24.39	16.03	14.16	7.08
		1.75V	118.54	89.83	76.00	59.05	50.78	34.89	23.97	15.82	13.96	7.01
		1.80V	116.07	87.67	74.96	58.25	50.30	34.55	23.49	15.20	13.82	6.91
27	OT85-12(GEL) OT85-12W(GEL)	1.60V	141.12	107.96	93.17	72.40	61.19	41.85	28.58	18.95	16.58	8.29
		1.67V	139.71	105.84	90.80	70.55	60.01	41.45	28.19	18.56	16.42	8.17
		1.70V	137.59	104.43	88.44	68.71	59.22	40.66	27.87	18.32	16.19	8.09
		1.75V	135.48	102.66	86.86	67.49	58.04	39.87	27.40	18.08	15.95	8.01
		1.80V	132.65	100.20	85.67	66.57	57.48	39.48	26.85	17.37	15.79	7.90
		1.85V	123.48	95.26	82.91	64.42	52.51	38.30	24.08	16.42	14.61	7.50
28	OT90-12(GEL)	1.60V	151.20	115.67	99.83	77.57	65.57	44.84	30.63	20.30	17.77	8.88
		1.67V	149.69	113.40	97.29	75.59	64.30	44.42	30.20	19.88	17.60	8.76
		1.70V	147.42	111.89	94.75	73.62	63.45	43.57	29.86	19.63	17.34	8.67
		1.75V	145.15	110.00	93.06	72.31	62.18	42.72	29.36	19.37	17.09	8.59
		1.80V	142.13	107.35	91.79	71.32	61.59	42.30	28.76	18.61	16.92	8.46
		1.85V	132.30	102.06	88.83	69.02	56.26	41.03	25.80	17.60	15.65	8.04

6V/12V Medium and Large Capacity Series												
No.	Mode No.	Cut-off Voltage /Cell	Watt/Cell(W) Discharging Duration (min.)			Watt/Cell(W) Discharging Duration(hour)						
			30	45	60	1.5	2.0	3.0	5.0	8.0	10.0	20.0
29	OT100-12(GEL) OT100-12W(GEL)	1.60V	168.00	128.52	110.92	86.18	72.85	49.82	34.03	22.56	19.74	9.87
		1.67V	166.32	126.00	108.10	83.99	71.44	49.35	33.56	22.09	19.55	9.73
		1.70V	163.80	124.32	105.28	81.80	70.50	48.41	33.18	21.81	19.27	9.64
		1.75V	161.28	122.22	103.40	80.34	69.09	47.47	32.62	21.53	18.99	9.54
		1.80V	157.92	119.28	101.99	79.25	68.43	47.00	31.96	20.68	18.80	9.40
30	OT120-12(GEL) OT120-12W(GEL)	1.60V	201.60	155.40	135.36	105.17	85.54	60.16	41.55	26.70	23.09	11.62
		1.67V	198.24	153.72	131.60	102.25	84.60	59.22	40.61	25.94	22.99	11.56
		1.70V	194.88	152.88	127.84	99.33	83.66	58.28	40.04	25.38	22.90	11.47
		1.75V	189.84	148.18	124.08	96.41	80.84	57.34	39.48	24.63	22.75	11.37
		1.80V	184.80	147.00	118.44	92.03	78.96	56.40	38.35	24.06	22.56	11.28
31	OT150-12(GEL) OT150-12W(GEL)	1.60V	252.00	194.25	169.20	131.47	106.93	75.20	51.94	33.37	28.86	14.52
		1.67V	247.80	192.15	164.50	127.82	105.75	74.03	50.76	32.43	28.74	14.45
		1.70V	243.60	191.10	159.80	124.16	104.58	72.85	50.06	31.73	28.62	14.34
		1.75V	237.30	185.22	155.10	120.51	101.05	71.68	49.35	30.79	28.44	14.22
		1.80V	231.00	183.75	148.05	115.03	98.70	70.50	47.94	30.08	28.20	14.10
32	OT200-12(GEL) OT200-12W(GEL)	1.60V	336.00	257.04	221.84	172.37	145.70	99.64	68.06	45.12	39.48	19.74
		1.67V	332.64	252.00	216.20	167.99	142.88	98.70	67.12	44.18	39.10	19.46
		1.70V	327.60	248.64	210.56	163.61	141.00	96.82	66.36	43.62	38.54	19.27
		1.75V	322.56	244.44	206.80	160.68	138.18	94.94	65.24	43.05	37.98	19.08
		1.80V	315.84	238.56	203.98	158.49	136.86	94.00	63.92	41.36	37.60	18.80
33	OT250-12W(GEL)	1.60V	420.00	320.88	285.76	222.04	180.10	122.40	84.22	57.34	47.94	24.01
		1.67V	416.64	315.00	274.10	212.98	174.28	121.42	83.47	54.52	47.66	23.91
		1.70V	411.60	310.46	269.59	209.47	168.26	120.44	82.72	53.58	47.38	23.81
		1.75V	403.20	305.42	264.33	205.38	164.50	119.46	80.84	52.64	47.19	23.71
		1.80V	394.80	298.20	258.50	200.85	158.67	117.50	79.90	51.70	47.00	23.50
33	OT250-12W(GEL)	1.85V	361.20	283.58	235.94	183.33	150.40	113.58	76.14	46.06	45.12	23.29



Constant Current Discharging Data

2V Series												
No.	Mode No.	Cut-off Voltage /Cell	Discharge Current(A) Discharging Duration (min.)			Discharge Current(A) Discharging Duration(hour)						
			30	45	60	1.5	2.0	3.0	4.0	5.0	8.0	10.0
01	OT100-2(GEL)	1.60V	100.0	80.0	60.0	50.0	39.0	31.5	23.0	19.0	13.8	11.0
		1.65V	97.0	78.0	58.0	48.0	38.0	30.5	22.5	18.5	13.5	10.7
		1.70V	95.0	76.0	56.0	46.0	37.5	28.0	22.0	18.0	13.1	10.5
		1.75V	93.0	74.0	55.0	45.0	36.5	26.5	21.5	17.5	12.7	10.3
		1.80V	91.0	72.0	54.0	43.0	35.0	25.0	21.0	17.0	12.3	10.0
		1.85V	87.0	69.0	52.0	40.0	33.5	24.0	20.0	16.0	11.8	9.7
02	OT150-2(GEL)	1.60V	150.0	120.0	90.0	75.0	58.5	47.3	34.5	28.5	20.7	16.5
		1.65V	145.5	117.0	87.0	72.0	57.0	45.8	33.8	27.8	20.3	16.1
		1.70V	142.5	114.0	84.0	69.0	56.3	42.0	33.0	27.0	19.7	15.8
		1.75V	139.5	111.0	82.5	67.5	54.8	39.8	32.3	26.3	19.1	15.5
		1.80V	136.5	108.0	81.0	64.5	52.5	37.5	31.5	25.5	18.5	15.0
		1.85V	130.5	103.5	78.0	60.0	50.3	36.0	30.0	24.0	17.7	14.6
03	OT200-2(GEL)	1.60V	200.0	160.0	120.0	100.0	78.0	63.0	46.0	38.0	27.6	22.0
		1.65V	194.0	156.0	116.0	96.0	76.0	61.0	45.0	37.0	27.0	21.4
		1.70V	190.0	152.0	112.0	92.0	75.0	56.0	44.0	36.0	26.2	21.0
		1.75V	186.0	148.0	110.0	90.0	73.0	53.0	43.0	35.0	25.4	20.6
		1.80V	182.0	144.0	108.0	86.0	70.0	50.0	42.0	34.0	24.6	20.0
		1.85V	174.0	138.0	104.0	80.0	67.0	48.0	40.0	32.0	23.6	19.4
04	OT300-2(GEL)	1.60V	300.0	240.0	180.0	150.0	117.0	94.5	69.0	57.0	41.4	33.0
		1.65V	291.0	234.0	174.0	144.0	114.0	91.5	67.5	55.5	40.5	32.1
		1.70V	285.0	228.0	168.0	138.0	112.5	84.0	66.0	54.0	39.3	31.5
		1.75V	279.0	222.0	165.0	135.0	109.5	79.5	64.5	52.5	38.1	30.9
		1.80V	273.0	216.0	162.0	129.0	105.0	75.0	63.0	51.0	36.9	30.0
		1.85V	261.0	207.0	156.0	120.0	100.5	72.0	60.0	48.0	35.4	29.1
05	OT400-2(GEL)	1.60V	400.0	320.0	240.0	200.0	156.0	126.0	92.0	76.0	55.2	44.0
		1.65V	388.0	312.0	232.0	192.0	152.0	122.0	90.0	74.0	54.0	42.8
		1.70V	380.0	304.0	224.0	184.0	150.0	112.0	88.0	72.0	52.4	42.0
		1.75V	372.0	296.0	220.0	180.0	146.0	106.0	86.0	70.0	50.8	41.2
		1.80V	364.0	288.0	216.0	172.0	140.0	100.0	84.0	68.0	49.2	40.0
		1.85V	348.0	276.0	208.0	160.0	134.0	96.0	80.0	64.0	47.2	38.8
06	OT500-2(GEL)	1.60V	500.0	400.0	300.0	250.0	195.0	157.5	115.0	95.0	69.0	55.0
		1.65V	485.0	390.0	290.0	240.0	190.0	152.5	112.5	92.5	67.5	53.5
		1.70V	475.0	380.0	280.0	230.0	187.5	140.0	110.0	90.0	65.5	52.5
		1.75V	465.0	370.0	275.0	225.0	182.5	132.5	107.5	87.5	63.5	51.5
		1.80V	455.0	360.0	270.0	215.0	175.0	125.0	105.0	85.0	61.5	50.0
		1.85V	435.0	345.0	260.0	200.0	167.5	120.0	100.0	80.0	59.0	48.5
07	OT600-2(GEL)	1.60V	600.0	480.0	360.0	300.0	234.0	189.0	138.0	114.0	82.8	66.0
		1.65V	582.0	468.0	348.0	288.0	228.0	183.0	135.0	111.0	81.0	64.2
		1.70V	570.0	456.0	336.0	276.0	225.0	168.0	132.0	108.0	78.6	63.0
		1.75V	558.0	444.0	330.0	270.0	219.0	159.0	129.0	105.0	76.2	61.8
		1.80V	546.0	432.0	324.0	258.0	210.0	150.0	126.0	102.0	73.8	60.0
		1.85V	522.0	414.0	312.0	240.0	201.0	144.0	120.0	96.0	70.8	58.2

2V Series												
No.	Mode No.	Cut-off Voltage /Cell	Discharge Current(A) Discharging Duration (min.)			Discharge Current(A) Discharging Duration(hour)						
			30	45	60	1.5	2.0	3.0	4.0	5.0	8.0	10.0
08	OT800-2(GEL)	1.60V	800.0	640.0	480.0	400.0	312.0	252.0	184.0	152.0	110.4	88.0
		1.65V	776.0	624.0	464.0	384.0	304.0	244.0	180.0	148.0	108.0	85.6
		1.70V	760.0	608.0	448.0	368.0	300.0	224.0	176.0	144.0	104.8	84.0
		1.75V	744.0	592.0	440.0	360.0	292.0	212.0	172.0	140.0	101.6	82.4
		1.80V	728.0	576.0	432.0	344.0	280.0	200.0	168.0	136.0	98.4	80.0
		1.85V	696.0	552.0	416.0	320.0	268.0	192.0	160.0	128.0	94.4	77.6
09	OT1000-2(GEL)	1.60V	1000.0	800.0	600.0	500.0	390.0	315.0	230.0	190.0	138.0	110.0
		1.65V	970.0	780.0	580.0	480.0	380.0	305.0	225.0	185.0	135.0	107.0
		1.70V	950.0	760.0	560.0	460.0	375.0	280.0	220.0	180.0	131.0	105.0
		1.75V	930.0	740.0	550.0	450.0	365.0	265.0	215.0	175.0	127.0	103.0
		1.80V	910.0	720.0	540.0	430.0	350.0	250.0	210.0	170.0	123.0	100.0
		1.85V	870.0	690.0	520.0	400.0	335.0	240.0	200.0	160.0	118.0	97.0
10	OT1500-2(GEL)	1.60V	1500.0	1200.0	900.0	750.0	585.0	472.5	345.0	285.0	207.0	165.0
		1.65V	1455.0	1170.0	870.0	720.0	570.0	457.5	337.5	277.5	202.5	160.5
		1.70V	1425.0	1140.0	840.0	690.0	562.5	420.0	330.0	270.0	196.5	157.5
		1.75V	1395.0	1110.0	825.0	675.0	547.5	397.5	322.5	262.5	190.5	154.5
		1.80V	1365.0	1080.0	810.0	645.0	525.0	375.0	315.0	255.0	184.5	150.0
		1.85V	1305.0	1035.0	780.0	600.0	502.5	360.0	300.0	240.0	177.0	145.5
11	OT2000-2(GEL)	1.60V	2000.0	1600.0	1200.0	1000.0	780.0	630.0	460.0	380.0	276.0	220.0
		1.65V	1940.0	1560.0	1160.0	960.0	760.0	610.0	450.0	370.0	270.0	214.0
		1.70V	1900.0	1520.0	1120.0	920.0	750.0	560.0	440.0	360.0	262.0	210.0
		1.75V	1860.0	1480.0	1100.0	900.0	730.0	530.0	430.0	350.0	254.0	206.0
		1.80V	1820.0	1440.0	1080.0	860.0	700.0	500.0	420.0	340.0	246.0	200.0
		1.85V	1740.0	1380.0	1040.0	800.0	670.0	480.0	400.0	320.0	236.0	194.0
12	OT3000-2(GEL)	1.60V	3000.0	2400.0	1800.0	1500.0	1170.0	945.0	690.0	570.0	414.0	330.0
		1.65V	2910.0	2340.0	1740.0	1440.0	1140.0	915.0	675.0	555.0	405.0	321.0
		1.70V	2850.0	2280.0	1680.0	1380.0	1125.0	840.0	660.0	540.0	393.0	315.0
		1.75V	2790.0	2220.0	1650.0	1350.0	1095.0	795.0	645.0	525.0	381.0	309.0
		1.80V	2730.0	2160.0	1620.0	1290.0	1050.0	750.0	630.0	510.0	369.0	300.0
		1.85V	2610.0	2070.0	1560.0	1200.0	1005.0	720.0	600.0	480.0	354.0	291.0

6V/12V Small Capacity Series											
No.	Mode No.	Cut-off Voltage /Cell	Discharge Current(A) Discharging Duration (min.)					Discharge Current(A) Discharging Duration(hour)			
			5	10	15	30	60	3	5	10	20
13	OT4.5-6(GEL)	1.60V	16.200	11.300	9.000	4.900	2.800	1.260	0.830	0.460	0.230
		1.65V	15.500	10.800	8.500	4.600	2.650	1.220	0.810	0.450	0.228
		1.70V	15.200	10.500	8.000	4.500	2.550	1.170	0.790	0.440	0.226
		1.75V	14.600	9.800	7.600	4.200	2.480	1.130	0.760	0.420	0.225
		1.80V	14.000	9.400	7.200	3.900	2.400	1.080	0.720	0.400	0.228
14	OT7-6(GEL)	1.60V	25.200	17.500	14.000	7.560	4.300	1.960	1.280	0.710	0.357
		1.65V	24.000	17.000	13.200	7.140	4.150	1.890	1.260	0.700	0.354
		1.70V	23.100	16.500	12.300	7.000	4.050	1.820	1.230	0.690	0.352
		1.75V	22.400	15.800	11.700	6.440	3.850	1.750	1.200	0.680	0.350
		1.80V	21.000	15.000	11.200	6.060	0.780	1.680	1.150	0.660	0.340

6V/12V Small Capacity Series											
No.	Mode No.	Cut-off Voltage /Cell	Discharge Current(A) Discharging Duration (min.)					Discharge Current(A) Discharging Duration(hour)			
			5	10	15	30	60	3	5	10	20
15	OT12-6(GEL)	1.60V	43.200	30.000	24.000	13.000	7.200	3.360	2.150	1.150	0.615
		1.65V	40.800	29.000	22.500	12.200	7.000	3.240	2.120	1.140	0.610
		1.70V	39.000	28.200	21.000	12.000	6.800	3.120	2.050	1.120	0.605
		1.75V	37.800	27.000	20.000	11.000	6.600	3.000	2.040	1.100	0.600
		1.80V	36.000	25.600	19.200	10.300	6.400	2.880	1.950	1.050	0.580
16	OT4.5-12(GEL)	1.60V	16.200	11.300	9.000	4.900	2.800	1.260	0.830	0.460	0.230
		1.65V	15.500	10.800	8.500	4.600	2.650	1.220	0.810	0.450	0.228
		1.70V	15.200	10.500	8.000	4.500	2.550	1.170	0.790	0.440	0.226
		1.75V	14.600	9.800	7.600	4.200	2.480	1.130	0.760	0.420	0.225
		1.80V	14.000	9.400	7.200	3.900	2.400	1.080	0.720	0.400	0.214
17	OT7-12(GEL)	1.60V	25.200	17.500	14.000	7.560	4.300	1.960	1.280	0.710	0.357
		1.65V	24.000	17.000	13.200	7.140	4.150	1.890	1.260	0.700	0.354
		1.70V	23.100	16.500	12.300	7.000	4.050	1.820	1.230	0.690	0.352
		1.75V	22.400	15.800	11.700	6.440	3.850	1.750	1.200	0.680	0.350
18	OT12-12(GEL)	1.60V	43.200	30.000	24.000	13.000	7.200	3.360	2.220	1.200	0.615
		1.65V	41.300	28.800	22.800	12.600	7.000	3.250	2.180	1.180	0.610
		1.70V	40.800	27.600	21.600	12.000	6.800	3.150	2.150	1.140	0.605
		1.75V	39.000	26.400	20.400	11.400	6.600	3.000	2.040	1.100	0.600
19	OT17-12(GEL)	1.60V	61.200	40.000	31.500	21.600	11.500	4.950	3.330	1.800	0.915
		1.65V	59.400	38.500	30.600	20.700	11.000	4.850	3.240	1.750	0.910
		1.70V	57.600	36.900	29.700	18.900	10.500	4.750	3.150	1.720	0.905
		1.75V	55.800	35.100	28.800	18.000	9.800	4.500	3.060	1.700	0.850
1.80V	50.400	32.400	27.000	17.100	9.500	4.300	2.880	1.650	0.840		

6V/12V Medium and Large Capacity Series												
No.	Mode No.	Cut-off Voltage /Cell	Discharge Current(A) Discharging Duration (min.)			Discharge Current(A) Discharging Duration(hour)						
			30	45	60	1.5	2.0	3.0	5.0	8.0	10.0	20.0
20	OT100-6(GEL)	1.60V	100.00	76.50	59.00	45.84	38.75	26.50	18.10	12.00	10.50	5.51
		1.67V	99.00	75.00	57.50	44.68	38.00	26.25	17.85	11.75	10.40	5.43
		1.70V	97.50	74.00	56.00	43.51	37.50	25.75	17.65	11.60	10.25	5.38
		1.75V	96.00	72.80	55.00	42.74	36.75	25.25	17.35	11.45	10.10	5.33
		1.80V	94.00	71.00	54.25	42.15	36.40	25.00	17.00	11.00	10.00	5.25
		1.85V	87.50	67.50	52.50	40.79	33.25	24.25	15.25	10.40	9.25	4.99
21	OT24-12(GEL)	1.60V	24.00	18.40	14.16	11.00	9.30	6.36	4.34	2.88	2.52	1.32
		1.67V	23.80	18.00	13.80	10.72	9.12	6.30	4.28	2.82	2.50	1.30
		1.70V	23.40	17.80	13.44	10.44	9.00	6.18	4.24	2.78	2.46	1.29
		1.75V	23.00	17.50	13.20	10.26	8.82	6.06	4.16	2.75	2.42	1.28
		1.80V	22.60	17.00	13.02	10.12	8.74	6.00	4.08	2.64	2.40	1.26
1.85V	21.00	16.20	12.60	9.79	7.98	5.82	3.66	2.50	2.22	1.20		

6V/12V Medium and Large Capacity Series												
No.	Mode No.	Cut-off Voltage /Cell	Discharge Current(A) Discharging Duration (min.)			Discharge Current(A) Discharging Duration(hour)						
			30	45	60	1.5	2.0	3.0	5.0	8.0	10.0	20.0
22	OT33-12(GEL)	1.60V	35.00	25.00	19.47	15.13	12.79	8.75	5.97	3.96	3.47	1.82
		1.67V	34.20	24.50	18.98	14.74	12.54	8.66	5.89	3.88	3.43	1.79
		1.70V	33.80	24.00	18.48	14.36	12.38	8.50	5.82	3.83	3.38	1.78
		1.75V	33.00	23.00	18.15	14.10	12.13	8.33	5.73	3.78	3.33	1.76
		1.80V	32.00	22.30	17.90	13.91	12.01	8.25	5.61	3.63	3.30	1.73
		1.85V	29.50	21.50	17.33	13.46	10.97	8.00	5.03	3.43	3.05	1.65
23	OT38-12(GEL) OT38-12W(GEL)	1.60V	38.00	29.10	22.42	17.42	14.73	10.07	6.88	4.56	3.99	2.09
		1.67V	37.60	28.50	21.85	16.98	14.44	9.98	6.78	4.47	3.95	2.06
		1.70V	37.10	28.10	21.28	16.53	14.25	9.79	6.71	4.41	3.90	2.04
		1.75V	36.50	27.60	20.90	16.24	13.97	9.60	6.59	4.35	3.84	2.02
		1.80V	35.70	27.00	20.62	16.02	13.83	9.50	6.46	4.18	3.80	2.00
24	OT55-12(GEL) OT55-12W(GEL)	1.60V	55.00	42.10	32.45	25.21	21.31	14.58	9.96	6.60	5.78	3.03
		1.67V	54.50	41.30	31.63	24.57	20.90	14.44	9.82	6.46	5.72	2.99
		1.70V	53.60	40.70	30.80	23.93	20.63	14.16	9.71	6.38	5.64	2.96
		1.75V	52.80	40.00	30.25	23.50	20.21	13.89	9.54	6.30	5.56	2.93
		1.80V	51.70	39.10	29.84	23.18	20.02	13.75	9.35	6.05	5.50	2.89
		1.85V	48.10	37.10	28.88	22.44	18.29	13.34	8.39	5.72	5.09	2.74
25	OT65-12(GEL) OT65-12W(GEL)	1.60V	65.00	49.70	38.35	29.80	25.19	17.23	11.77	7.80	6.83	3.58
		1.67V	64.40	48.80	37.38	29.04	24.70	17.06	11.60	7.64	6.76	3.53
		1.70V	63.40	48.10	36.40	28.28	24.38	16.74	11.47	7.54	6.66	3.50
		1.75V	62.40	47.30	35.75	27.78	23.89	16.41	11.28	7.44	6.57	3.46
		1.80V	61.1	46.20	35.26	27.40	23.66	16.25	11.05	7.15	6.50	3.41
26	OT75-12(GEL) OT75-12W(GEL)	1.60V	75.00	57.40	44.23	34.37	29.05	19.87	13.57	9.00	7.87	4.13
		1.67V	74.20	56.20	43.11	33.49	28.49	19.68	13.38	8.81	7.80	4.07
		1.70V	73.10	55.50	41.98	32.62	28.11	19.30	13.23	8.70	7.68	4.03
		1.75V	72.00	54.50	41.23	32.04	27.55	18.93	13.01	8.58	7.57	3.99
		1.80V	70.50	53.20	40.67	31.60	27.29	18.74	12.74	8.25	7.50	3.94
		1.85V	65.60	50.60	39.36	30.58	24.93	18.18	11.43	7.80	6.93	3.74
27	OT85-12(GEL) OT85-12W(GEL)	1.60V	85.00	65.00	50.13	38.95	32.92	22.51	15.38	10.20	8.92	4.68
		1.67V	84.10	63.70	48.85	37.96	32.28	22.30	15.17	9.98	8.84	4.62
		1.70V	82.80	62.90	47.58	36.97	31.86	21.88	15.00	9.86	8.71	4.57
		1.75V	81.60	61.80	46.73	36.31	31.22	21.45	14.74	9.73	8.58	4.53
		1.80V	79.90	60.30	46.09	35.81	30.93	21.24	14.44	9.35	8.50	4.46
28	OT90-12(GEL)	1.60V	90.00	68.90	53.10	41.26	34.88	23.85	16.29	10.80	9.45	4.96
		1.67V	89.10	67.50	51.75	40.21	34.20	23.63	16.07	10.58	9.36	4.89
		1.70V	87.80	66.60	50.40	39.16	33.75	23.18	15.89	10.44	9.23	4.84
		1.75V	86.40	65.50	49.50	38.46	33.08	22.73	15.62	10.31	9.09	4.80
		1.80V	84.60	63.90	48.83	37.94	32.76	22.50	15.30	9.90	9.00	4.73
		1.85V	78.80	60.80	47.25	36.71	29.93	21.83	13.73	9.36	8.33	4.49

6V/12V Medium and Large Capacity Series												
No.	Mode No.	Cut-off Voltage /Cell	Discharge Current(A) Discharging Duration (min.)			Discharge Current(A) Discharging Duration(hour)						
			30	45	60	1.5	2.0	3.0	5.0	8.0	10.0	20.0
29	OT100-12(GEL) OT100-12W(GEL)	1.60V	100.00	76.50	59.00	45.84	38.75	26.50	18.10	12.00	10.50	5.51
		1.67V	99.00	75.00	57.50	44.68	38.00	26.25	17.85	11.75	10.40	5.43
		1.70V	97.50	74.00	56.00	43.51	37.50	25.75	17.65	11.60	10.25	5.38
		1.75V	96.00	72.80	55.00	42.74	36.75	25.25	17.35	11.45	10.10	5.33
		1.80V	94.00	71.00	54.25	42.15	36.40	25.00	17.00	11.00	10.00	5.25
		1.85V	87.50	67.50	52.50	40.79	33.25	24.25	15.25	10.40	9.25	4.99
30	OT120-12(GEL) OT120-12W(GEL)	1.60V	120.00	92.50	72.00	55.94	45.50	32.00	22.10	14.20	12.28	6.49
		1.67V	118.00	91.50	70.00	54.39	45.00	31.50	21.60	13.80	12.23	6.46
		1.70V	116.00	91.00	68.00	52.84	44.50	31.00	21.30	13.50	12.18	6.41
		1.75V	113.00	88.20	66.00	51.28	43.00	30.50	21.00	13.10	12.10	6.35
		1.80V	110.00	87.50	63.00	48.95	42.00	30.00	20.40	12.80	12.00	6.30
31	OT150-12(GEL) OT150-12W(GEL)	1.60V	150.00	115.60	90.00	69.93	56.88	40.00	27.63	17.75	15.35	8.11
		1.67V	147.50	114.40	87.50	67.99	56.25	39.38	27.00	17.25	15.29	8.07
		1.70V	145.00	113.80	85.00	66.05	55.63	38.75	26.63	16.88	15.23	8.01
		1.75V	141.30	110.30	82.50	64.10	53.75	38.13	26.25	16.38	15.13	7.94
		1.80V	137.50	109.40	78.75	61.19	52.50	37.50	25.50	16.00	15.00	7.88
		1.85V	132.50	95.00	75.00	58.28	50.00	36.25	25.00	15.25	14.38	7.61
32	OT200-12(GEL) OT200-12W(GEL)	1.60V	200.00	153.00	118.00	91.69	77.50	53.00	36.20	24.00	21.00	11.03
		1.67V	198.00	150.00	115.00	89.36	76.00	52.50	35.70	23.50	20.80	10.87
		1.70V	195.00	148.00	112.00	87.02	75.00	51.50	35.30	23.20	20.50	10.76
		1.75V	192.00	145.50	110.00	85.47	73.50	50.50	34.70	22.90	20.20	10.66
		1.80V	188.00	142.00	108.50	84.30	72.80	50.00	34.00	22.00	20.00	10.50
33	OT250-12W(GEL)	1.60V	250.00	191.00	152.00	118.10	95.80	65.10	44.80	30.50	25.50	13.41
		1.67V	248.00	187.50	145.80	113.29	92.70	64.58	44.40	29.00	25.35	13.35
		1.70V	245.00	184.80	143.40	111.42	89.50	64.06	44.00	28.50	25.20	13.30
		1.75V	240.00	181.80	140.60	109.25	87.50	63.54	43.00	28.00	25.10	13.24
		1.80V	235.00	177.50	137.50	106.84	84.40	62.50	42.50	27.50	25.00	13.13
		1.85V	215.00	168.8	125.50	97.51	80.00	60.42	40.50	24.50	24.00	13.01



BATTERY USE

▲ Batteries are delivered fully charged. During the storage before installation, the capacity of battery will decrease in different degrees. If the storage time is longer, battery should be recharged. If the storage time is less than 6 months, batteries should be recharged in constant voltage limit current 2.27V/Cell, the maximum current should be less than 0.25C A, charging time 48~72h.

▲ Batteries could be in standby use and cycle use. Please charge the battery in constant voltage and limit current, the maximum current : 0.1C10~0.25 C10 A, battery standby use: 25°C 2V series: 2.25V/Cell, 6V or 12V series: 2.27V/Cell; battery cycle use: 25°C, 2V series: 2.35V/Cell, 6V or 12V series: 2.40V/Cell.

▲ If the ambient temperature is too high or too low, in case the ambient temperature exceeds 20°C ~30°C, then the charging voltage should be adjusted, in case of higher temperature, decreases the charging voltage, and in lower temperature increases the charging voltage, the correction factor : 4mV/°C. Besides, that ambient temperature of battery is too high or too low will also influence the capacity and the service life.

▲ Battery should be recharged after the installation or after the discharging, charging the battery in constant voltage limit current mode, charging voltage: 25°C 2.35V/Cell, the maximum current: 0.1C10~0.25C10 A, if discharging in 100% capacity, the charging time is about 24h-27h, if the charging current decreases to a very low current, and retain for 3h almost invariant or the charging electric quantity is 1.15 times of the discharging electric quantity, then consider the battery have been fully charged.

▲ Battery equalization charging: while the float voltage of the certain battery or some of the batteries is under 2.2V/Cell, then the whole pack of batteries should be equalization recharged, 25°C 2.35V/Cell, the maximum current: 0.1C10~0.15 C10 A, time: 8h~12h.

REQUIREMENTS OF BATTERY WORKING MAINTENANCE

▲ During the battery working, the operator should take complete working records including battery voltage, current, ambient temperature and other relevant data and working time.

▲ Operators should inspect the fastening condition of connecting terminals such as battery overheating or striking fire caused by the connecting strip smudge or loose connecting.

▲ Inspecting the total float charging voltage, the operator should use voltmeter to measure the measurement number of battery positive and negative output end voltage is consistent with the indicating float charge voltage, and conforms to the required number of standard float charge voltage under the current temperature.

▲ During the battery working, if battery voltage is abnormal, appearance has damage like battery container and cover has flaw or deformation), battery electrolyte leaks, battery temperature is normal, the operator should find the failure cause in time.

REQUIREMENTS OF INSTALLATION AND USE

▲ Generally, battery are used in series connection, if batteries must be used in parallel connection, then the parallels should not be over two branches. Batteries can work in an ambient temperature of -25°C ~45°C. The proper using temperature is 15°C ~30°C, the battery room should have necessary ventilation.

▲ Batteries should be away from source of heat and spark, the security distance should be longer than 1 meter. Batteries should be stored away from direct sunlight, other rays, organic solvent gases and corrosive gases. To improve shockproof capability, the battery rack should be reinforced with foundation bolts.

▲ Batteries are delivered fully charged, so during the transportation and installation, batteries should be prevented from short circuit, be careful of the short circuit caused by batteries and metal parts of battery metal shelf or metal box touches.

▲ When installing the battery wires, the operator should use insulating tools and wear insulating gloves, also remove personal metal articles like watch, bracelets and so on. The operator should screw the bolt tightly during the connection, the proper torque should be 5~7N.M in case of battery overheating or battery striking fire caused by loose connection.

▲ Batteries of different models or different capacity cannot be mixed in use. When installing terminal connecting pieces, operators should carefully inspect if the polarity connecting is correct. The positive pole of battery connects with the positive pole of charging device, the negative pole of battery connects with the negative pole of charging device, be careful not to reverse the polarity.

NOTES FOR BATTERY USE



▲ Don't separate or transform the battery;

▲ Don't throw the battery into the water or the fire;

▲ Please wear insulating gloves when connecting the battery packs;

▲ Don't install, use or store batteries in which children can touch;

▲ Don't use different brand, different capacity, different voltage and different degree of old and new batteries in series connection;

▲ There is acid inside batteries, if battery is damaged by machine and acid splash the skin, clothes and even eyes, please wash with plenty of water or seek medical treatment immediately.