

BATTERY
CSB



UPS series
 High Rate Purpose
 High Energy Density

ENERGY OF INFINITY ▼

Confidence & Creativity
 Service & Sincerity
 Belief & Bravery

UPS

UPS series

UPS-series batteries use the latest wafer-thin plate technology to provide optimum high-rate (5-min) performance.

They are small and lightweight yet still deliver the power of large batteries.

With more than 260 cycles at 100% discharge in cycle service, or up to 5 years of standby service, the UPS series is the next generation of high-rate uninterruptible power.

All UPS series batteries are rechargeable, highly efficient, maintenance free, leakproof, useable in any orientation and ISO/UL recognized.



In accordance with IEC60896-21/22:2004

In accordance with BS6290-4

Performance

- Multifunctional.
- Superior patented lead plate formula for greater conductivity
- Superior high-rate discharge capability.
- Cost-effective power density in a smaller footprint.
- Uniformed plate formation for consistent capacity.
- No-spill design.
- Useable in any orientation.
- Maintenance free.
- Low self-discharge.

Service life

- Up to 5 years expected life under normal float charge at 25 °C (77 °F).
- Extended shelf life (up to 14 months at 20 °C).

Reliability

- CSB-manufactured batteries are 100% 2-cycle tested by CCDS.
- CSB-manufactured batteries are UL-recognized components under UL 924 and UL 1989. CSB file number MH14533.
- ISO9001/14001 certified.

Applications

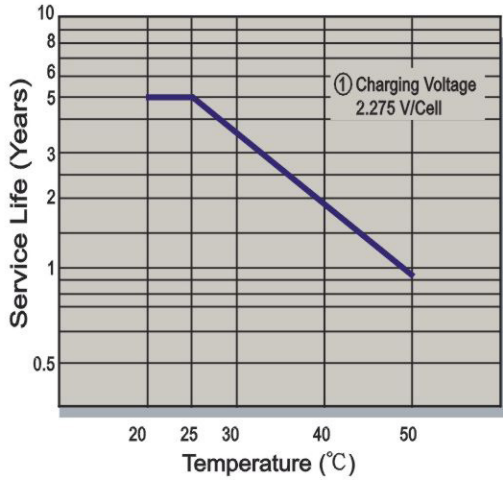
Standby use

- UPS power supply.
- Workstation UPS.
- Emergency lighting equipment.
- Precision instrumentation.
- Fire alarms and security systems.
- Communications and electrical equipment.
- Office computers, microcomputers and OA equipment.
- Telemeters.

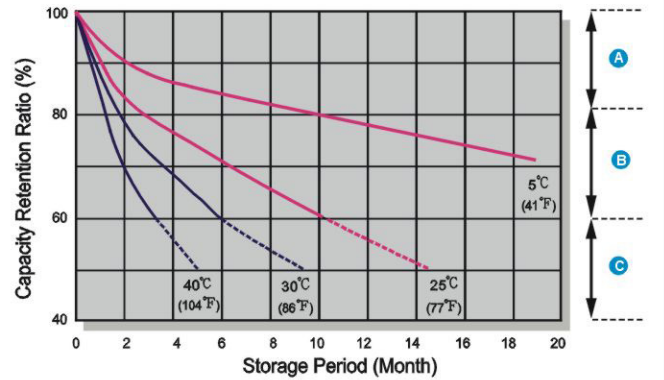
Cycle use

- Portable measuring equipment.
- Cameras and photographic equipment.
- Various toys and hobby equipment.

Trickle (or Float) Service Life



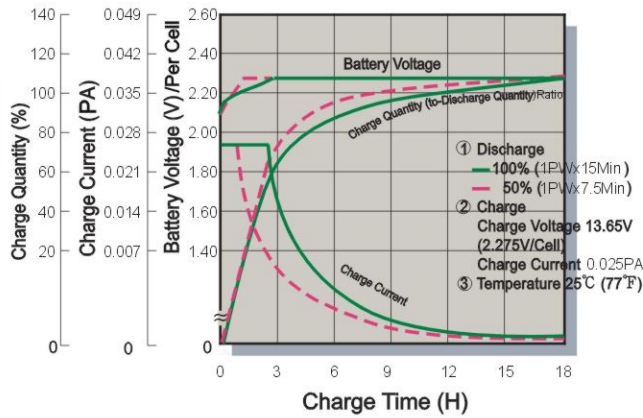
Capacity Retention Characteristic



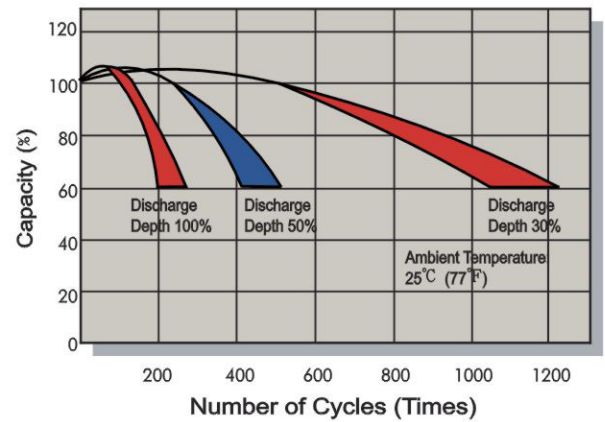
- A** No supplementary charge required (Carry out supplementary charge before use if 100% capacity is required)
- B** Supplementary charge required before use. This supplementary charge will help to recover the capacity and should be made as early as possible.
- C** Supplementary charge may often fail to recover the capacity. The battery should never be left standing at this state is reached.

Supplementary charge and storage guidelines

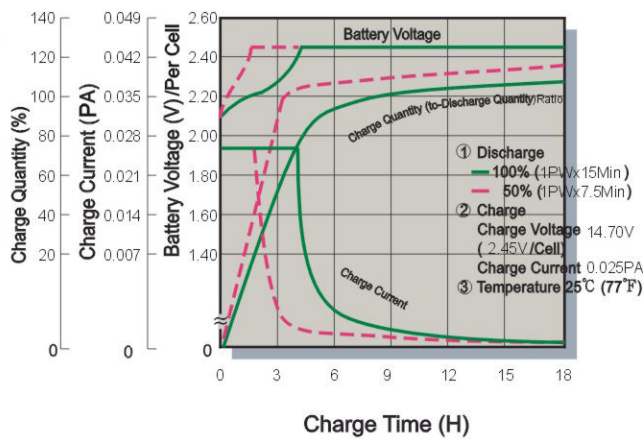
Battery Voltage and Charge Time for Standby Use



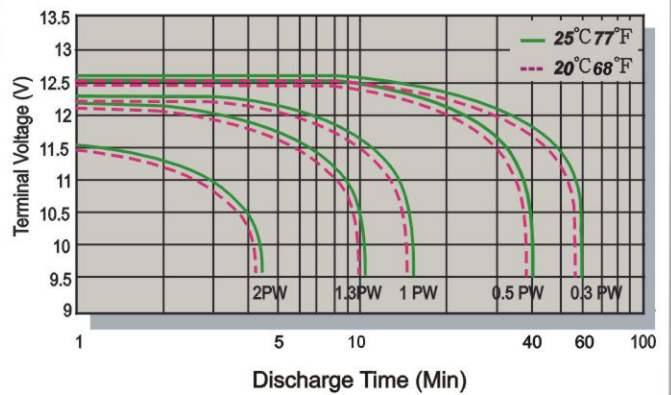
Cycle Service Life



Battery Voltage and Charge Time for Cycle Use



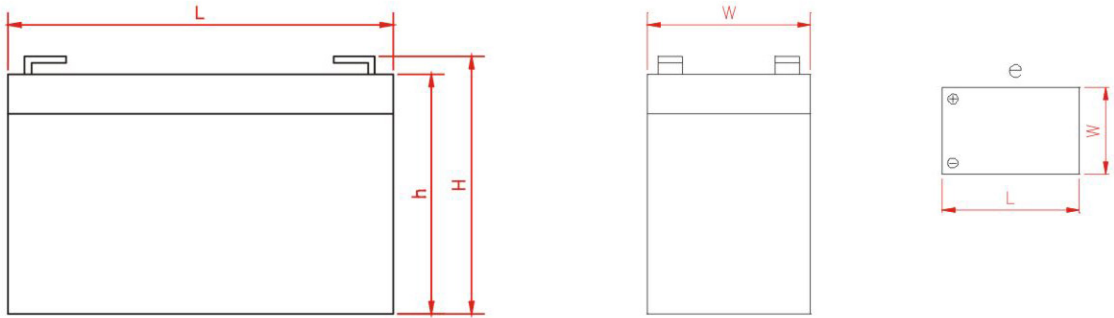
Terminal Voltage (V) and Discharge Time



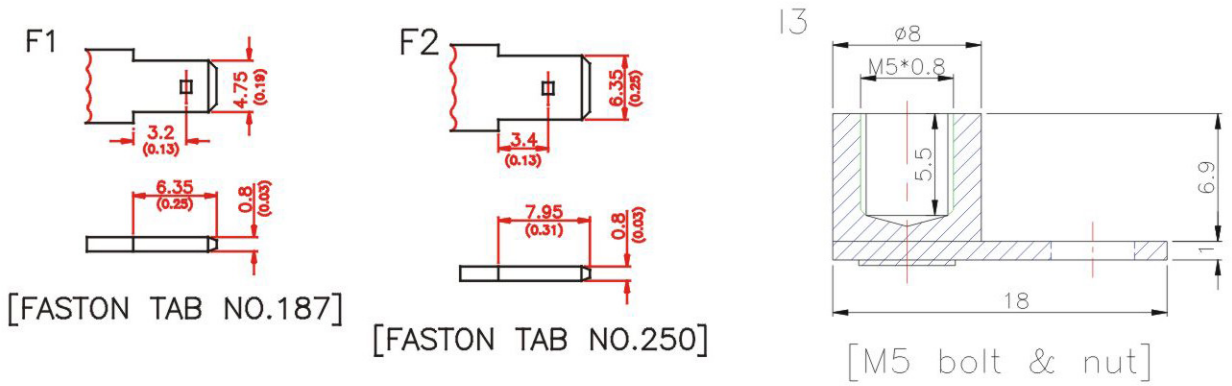
Specifications

Type	Nominal Voltage(V)	Nominal Capacity (5min) (Wh/pcs)	Weight (Approx. kg)	Energy Density (Wh/kg)	Specific Energy (Wh/kg)	Internal Resistance Approx. (mΩ)	Max. Discharge Current 5 sec (A)	Dimensions (mm)				Terminal Position	Terminal Type	Max. Charging Current (A)	Charging(V)	
								Height Over Terminal (H)	Container Height (h)	Length (L)	Width (W)				Standby Use	Cycle Use
UPS122406	12	240	1.46	27.6	13.69	32.00	100/130	98.3±1.0	94±1.0	151±2.0	51±1	e	F2	2.00	2.275V±0.025/CELL AT 25°C (77°F) Temp Coefficient -3.3mV/CELL°C	2.45V±0.05/CELL AT 25°C (77°F) Temp Coefficient -5mV/CELL°C
UPS123606	12	360	1.96	41.4	15.30	22.00	100/130	98.3±1.0	94±1.0	151±2.0	51±1	e	F2	3.00		
UPS123607	12	360	2.00	32.5	14.99	22.00	100/130	98.3±1.0	94±1.0	151±2.0	65±1.0	e	F2	3.00		
UPS12460	12	460	2.50	41.5	15.33	18.00	130	98.3±1.0	94±1.0	151±2.0	65±1.0	e	F2	3.60		
UPS12580	12	580	2.83	52.4	17.07	12.50	130	98.3±1.0	94±1.0	151±2.0	65±1.0	e	F2	3.76		

Terminal Position



Terminal Type



UPS122406													
Constant Current Discharge Characteristics Unit:Amperes(25°C, 77°F)													
F.V/Time	2MIN	3MIN	4MIN	5MIN	6MIN	7MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	42.4	32.6	27.2	23.6	20.6	18.3	16.1	13.5	9.89	7.93	5.80	3.35	2.41
1.67V	37.4	30.3	26.0	22.7	20.0	17.7	15.9	13.3	9.77	7.88	5.77	3.34	2.40
1.70V	35.2	29.1	25.2	22.0	19.7	17.4	15.6	13.2	9.67	7.86	5.75	3.31	2.38
1.75V	31.4	26.7	23.5	20.8	18.5	16.6	14.9	12.8	9.57	7.73	5.69	3.28	2.36
1.80V	27.7	24.4	21.3	19.1	16.9	15.2	14.0	12.1	9.22	7.48	5.55	3.22	2.32
1.85V	24.0	21.0	19.0	16.7	15.0	13.7	12.6	11.0	8.53	6.96	5.28	3.08	2.23
Constant Power Discharge Characteristics Unit:Watts(25°C, 77°F)													
F.V/Time	2MIN	3MIN	4MIN	5MIN	6MIN	7MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	383	321	275	240	213	192	177	151	112.0	90.1	66.1	38.5	28.1
1.67V	362	306	264	233	208	189	174	149	111.0	89.7	65.7	38.4	28.0
1.70V	350	297	258	228	205	187	171	148	110.0	89.4	65.6	38.3	27.9
1.75V	324	277	243	217	196	180	166	144	109.0	88.1	65.1	38.1	27.8
1.80V	296	254	226	201	184	170	156	136	105.0	85.5	63.7	37.5	27.4
1.85V	258	228	203	184	170	154	143	127	97.8	79.7	61.3	36.1	26.4

UPS123606													
Constant Current Discharge Characteristics Unit:Amperes(25°C, 77°F)													
F.V/Time	2MIN	3MIN	4MIN	5MIN	6MIN	7MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	61.7	49.0	41.2	35.3	31.1	27.7	24.7	20.7	15.2	12.1	8.90	5.10	3.64
1.67V	55.0	45.7	38.8	33.7	30.1	26.7	24.0	20.4	15.1	12.1	8.84	5.06	3.62
1.70V	52.2	43.8	37.5	32.6	29.2	26.0	23.6	20.1	15.0	12.0	8.81	5.02	3.61
1.75V	47.1	40.0	34.6	30.8	27.2	24.6	22.5	19.2	14.6	11.8	8.68	4.97	3.58
1.80V	42.4	36.0	31.4	27.6	24.8	22.4	20.7	18.0	13.9	11.3	8.40	4.88	3.52
1.85V	36.8	31.3	27.0	24.1	21.7	20.1	18.5	16.4	12.7	10.5	7.95	4.63	3.38
Constant Power Discharge Characteristics Unit:Watts(25°C, 77°F)													
F.V/Time	2MIN	3MIN	4MIN	5MIN	6MIN	7MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	558	467	403	360	318	284	259	222	169	135	100.0	58.4	42.4
1.67V	529	444	388	347	308	277	254	218	167	134	99.1	58.0	42.3
1.70V	510	436	381	340	301	272	250	216	165	133	98.7	57.7	42.0
1.75V	472	408	364	319	287	261	238	210	159	132	98.2	57.3	41.7
1.80V	423	376	330	293	264	244	225	199	154	126	96.0	56.4	41.2
1.85V	374	324	287	261	238	220	204	183	142	119	91.7	54.6	40.2

UPS123607													
Constant Current Discharge Characteristics Unit:Amperes(25°C, 77°F)													
F.V/Time	2MIN	3MIN	4MIN	5MIN	6MIN	7MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	62.8	49.5	41.5	35.5	30.8	27.3	24.5	20.5	14.9	11.9	8.71	5.04	3.61
1.67V	55.7	46.1	39.2	34.0	29.7	26.5	24.0	20.2	14.8	11.8	8.66	5.02	3.60
1.70V	52.2	44.5	38.1	32.9	29.0	25.9	23.5	19.9	14.6	11.7	8.63	4.98	3.57
1.75V	47.1	40.8	35.0	30.7	27.2	24.3	22.4	19.1	14.3	11.5	8.50	4.95	3.56
1.80V	42.0	36.4	31.5	27.9	24.8	22.5	20.7	17.9	13.6	11.1	8.30	4.86	3.51
1.85V	36.6	31.1	27.2	24.2	21.9	20.1	18.5	16.3	12.6	10.4	7.83	4.64	3.36
Constant Power Discharge Characteristics Unit:Watts(25°C, 77°F)													
F.V/Time	2MIN	3MIN	4MIN	5MIN	6MIN	7MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	550	468	405	360	322	291	268	228	170	137	100.0	58.6	43.0
1.67V	522	447	390	352	315	285	263	225	169	136	99.7	58.4	42.5
1.70V	499	435	383	344	309	281	258	222	167	134	98.4	58.2	42.2
1.75V	462	407	365	326	295	270	249	214	164	132	96.8	57.8	41.9
1.80V	428	376	339	301	274	252	232	203	156	128	95.2	56.3	41.4
1.85V	374	339	298	272	248	228	211	186	144	120	91.6	54.2	39.8

UPS12460													
Constant Current Discharge Characteristics Unit:Amperes(25°C, 77°F)													
F.V/Time	2MIN	3MIN	4MIN	5MIN	6MIN	7MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	77.2	63.0	52.7	44.9	39.7	35.6	32.3	27.3	19.9	15.9	11.57	6.65	4.80
1.67V	69.5	58.9	50.0	43.4	38.7	34.7	31.7	26.9	19.7	15.7	11.49	6.63	4.78
1.70V	66.0	56.9	48.6	42.4	37.9	34.0	31.1	26.5	19.6	15.6	11.44	6.60	4.75
1.75V	60.5	52.1	45.1	39.9	35.6	32.4	29.8	25.4	19.0	15.3	11.28	6.52	4.72
1.80V	53.8	46.5	41.1	36.5	33.0	30.2	27.8	24.0	18.2	14.7	10.95	6.38	4.62
1.85V	46.3	40.5	36.0	32.1	29.4	27.0	24.9	21.8	16.8	13.8	10.42	6.12	4.43
Constant Power Discharge Characteristics Unit:Watts(25°C, 77°F)													
F.V/Time	2MIN	3MIN	4MIN	5MIN	6MIN	7MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	710	606	520	460	412	373	343	296	224	180	133	77.3	56.4
1.67V	673	579	500	444	400	367	338	291	221	178	132	77.0	56.0
1.70V	650	561	489	435	394	362	334	288	220	178	132	76.7	56.0
1.75V	605	523	462	414	378	349	321	280	215	175	130.4	76.4	55.7
1.80V	555	482	429	387	356	327	303	266	207	168	127.5	75.1	54.7
1.85V	486	432	387	355	324	297	276	244	189	158	121.5	72.2	52.8

UPS12580													
Constant Current Discharge Characteristics Unit:Amperes(25°C, 77°F)													
F.V/Time	2MIN	3MIN	4MIN	5MIN	6MIN	7MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	95.1	75.5	63.4	54.1	47.2	42.3	38.5	32.3	23.0	18.3	13.2	7.42	5.31
1.67V	85.3	71.0	60.2	51.7	45.6	41.2	37.6	31.7	22.7	18.1	13.0	7.33	5.20
1.70V	81.1	68.3	58.4	50.4	44.6	40.4	37.1	31.3	22.7	18.0	12.9	7.24	5.17
1.75V	73.6	62.6	53.7	47.2	42.2	38.5	35.6	30.1	22.1	17.5	12.7	7.11	5.03
1.80V	66.1	56.8	48.8	43.2	39.3	36.3	33.2	28.4	21.1	16.9	12.4	6.92	4.91
1.85V	59.4	49.7	43.5	39.3	36.3	32.9	30.3	26.1	19.6	15.8	11.7	6.61	4.70
Constant Power Discharge Characteristics Unit:Watts(25°C, 77°F)													
F.V/Time	2MIN	3MIN	4MIN	5MIN	6MIN	7MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	908	774	663	580	516	469	427	361	261	208	150	84.2	59.3
1.67V	877	748	643	565	504	462	420	356	261	206	149	84.0	58.9
1.70V	859	730	630	556	499	453	414	353	258	206	149	83.6	58.8
1.75V	808	688	601	538	481	441	402	343	254	203	148	83.1	58.4
1.80V	750	640	568	505	458	419	383	329	245	197	145	81.7	57.6
1.85V	674	586	514	463	424	384	352	305	229	186	138	78.9	55.6

SALES OFFICE

GLOBAL HQ

CSB BATTERY CO., LTD. (TAIWAN)
11F, No. 150, Sec. 4, Chengde Rd.,
Shilin Dist., Taipei City 11167,
Taiwan (R.O.C.)
Tel: +886-2-2880-5600
Fax: +886-2-2888-3300
mail: service@csb-battery.com.tw

AMERICA HQ

CSB BATTERY TECHNOLOGIES, INC.
2901, White Settlement Rd.
Ft. Worth TX 76107.
U.S.A.
Tel: +1-817-244-7777/1-(800)3
CSBUSA(272872)
Fax: +1-817-244-4445
E-mail: csb@csb-battery.com

EUROPE HQ

CSB BATTERY EUROPE B.V
Keurmeesterstraat 28-30
2984 BA Ridderkerk
The Netherlands
Tel: +31 (0) 180418140
Fax: +31 (0) 180418327
E-mail: eurosales@csb-battery.eu

FRANCE OFFICE

CSB BATTERY FRANCE S.A.R.L
10, rue Boris Vian
95310 Saint Ouen l'Aumone
France
Tel: +33 (0) 134201746
Fax: +33 (0) 134201748
Email: eurosales@csb-battery.eu

BENELUX OFFICE

CSB BATTERY BENELUX B.V
Keurmeesterstraat 28-30
2984 BA Ridderkerk
The Netherlands
+31 (0) 180413098
+31 (0) 180411986
eurosales@csb-battery.eu

UK OFFICE

CSB BATTERY UK LTD
1 Riverwalk Business Park
Jeffreys Road. EN3 7QN
United Kingdom
Tel: +44 (0) 2088042991
Fax: +44 (0) 2088058056
E-mail: eurosales@csb-battery.eu

IBERICA OFFICE

CSB BATTERY IBERICA S.L
Gran Canaria 37
28970 Humanes de Madrid. Madrid
Spain
Tel: +34 - 916905437
Fax: +34 - 914920471
E-mail: eurosales@csb-battery.eu

GERMANY OFFICE

CSB BATTERY DEUTSCHLAND GMBH
Süliche Auffahrtsallee 75, 80639
München, Germany
Tel: +49 - 91299062885
Fax: +49 - 91299062887
mail: eurosales@csb-battery.eu

ITALY OFFICE

CSB BATTERY ITALIA S.R.L
Corso Sempione, 77, 20149 Milan, Italy
Tel: +39 045 92 50 870
Fax: +39 045 97 82 576
mail: eurosales@csb-battery.eu

BEIJING OFFICE (CHINA)

CSB BATTERY TECHNOLOGIES (BEIJING) CO., LTD.
(CHINA)
Room 702, 12th Building, Wanda Plaza,
Jianguo Rd., Chaoyang Dis.,
Beijing, China
PC: 100022
Tel: +86-10-58205336 / +86-10-58205338
Fax: +86-10-58203053
mail: chinasl@csb-battery.com

SHANGHAI OFFICE. (CHINA)

CSB BATTERY LOGISTIC (SHANGHAI) CO., LTD.
(CHINA)
Room2 105, Qiang Sheng Tower, Pu Jian Rd.,
Shanghai, China
PC: 200127
Tel: +86-21-50461622 / +86-21-50460833 /
+86-21-50460094
Fax: +86-21-50641046
mail: chinasl@csb-battery.com

SHENZHEN OFFICE.(CHINA)

CSB BATTERY LOGISTICS (SHANGHAI) CO., LTD.
Room 2103-2105, Block East,
City Professional Hub, Shennan Avenue, Futian
Shenzhen, China
Zipcode: 518053
Tel: +86-755-8831-6488/6775/6075
Fax: +86-755-8831-6548
E-mail: she@csb-battery.com.cn

MANUFACTURING SITE

CHINA FACTORY

CSB BATTERY GUANGZHOU CO., LTD.
No 97, Tianyuan Road, Yonghe Area,
Guangzhou Economic Technology Development
Zone, P.R.C.
Postcode:511356
Tel: +86-20-8297-9716
Fax: +86-20-8297-9719

TAIWAN FACTORY

CSB GUAN TYAN FACTORY (TAIWAN)
No. 16, Gong Yeh West Rd., Ell Jenn Tsuen,
Guan Tyan Hsiang, Tainan Hsien,
Taiwan.
Tel: +886-6-698-7600
Fax: +886-6-698-5734

VIETNAM FACTORY

CSB Battery (Viet Nam) CO., LTD.
Nhon Trach 3 IP, Second Phase,
Nhon Trach District, Dong Nai Province
Viet Nam
Tel: +84-61-3569120
Fax: +84-61-3569121