

HC 1221W

12V 21W

HC 1221W is specially designed for high efficient discharge application. Its invisible terminals can be inserted PC board directly. HC series battery can serve more than 260 cycles at 100% discharge in cycle service, up to 5 years in standby service.



Specification

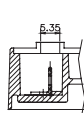
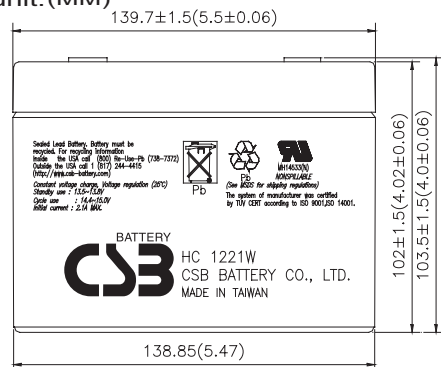
Cells Per Unit	6
Voltage Per Unit	12
Capacity	21W @ 15 min-rate to 1.67V per cell @25 °C (77°F) 5Ah @ 20hr-rate to 1.75V per cell @25°C(77°F)
Weight	Approx.1.79 kg(3.95 lbs)
Maximum Discharge Current	60A(5sec)
Internal Resistance	Approx. 25mΩ
Operating Temperature Range	Discharge: -15°C~50°C (5°F~122°F) Charge: -15 °C~40°C (5°F~104°F) Storage: -15°C~40°C (5°F~104°F)
Nominal Operating Temperature Range	25°C±3°C (77°F±5°F)
Float Charging Voltage	13.5 to 13.8 VDC/unit Average at 25°C (77°F)
Recommended Maximum Charging Current Limit	2.1A
Equalization and Cycle Service	14.4 to 15.0 VDC/unit Average at 25°C (77°F)
Self Discharge	CSB Batteries can be stored for more than 6 months at 25°C (77°F). Please charge batteries before using. For higher temperatures the time interval will be shorter.
Terminal	C1-Faston Tab187/250
Container Material	ABS(UL 94-HB/File E50263)*Flammability resistance of (UL 94-V0/File E88637) can be available upon request.



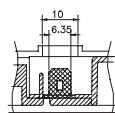
CSB-manufactured batteries are UL-recognized components under UL924 as well as ISO 9001 and ISO 14001 certified.

Dimensions

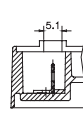
unit: (MM)



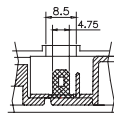
A-A Section



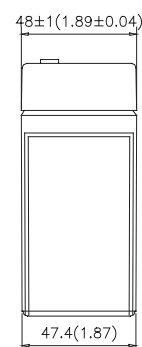
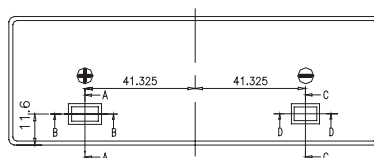
B-B Section



C-C Section



D-D Section



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

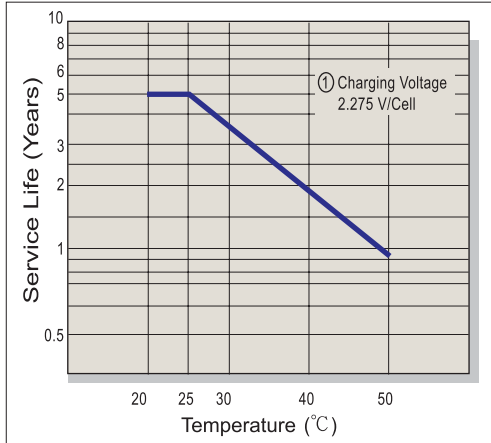
F.V/Time	2MIN	4MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	46.4	31.2	24.4	20.3	17.1	12.3	10.1	7.18	4.02	2.83
1.67V	43.4	29.8	23.8	20.0	16.9	12.2	10.0	7.16	4.01	2.71
1.70V	40.2	28.5	23.0	19.5	16.5	12.1	9.93	7.15	4.00	2.66
1.75V	36.6	27.0	22.0	18.9	16.1	11.9	9.82	7.14	3.99	2.56
1.80V	32.8	25.1	20.8	18.2	15.7	11.7	9.71	7.13	3.98	2.46
1.85V	28.6	22.9	19.5	17.3	15.2	11.5	9.59	7.12	3.97	2.36

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

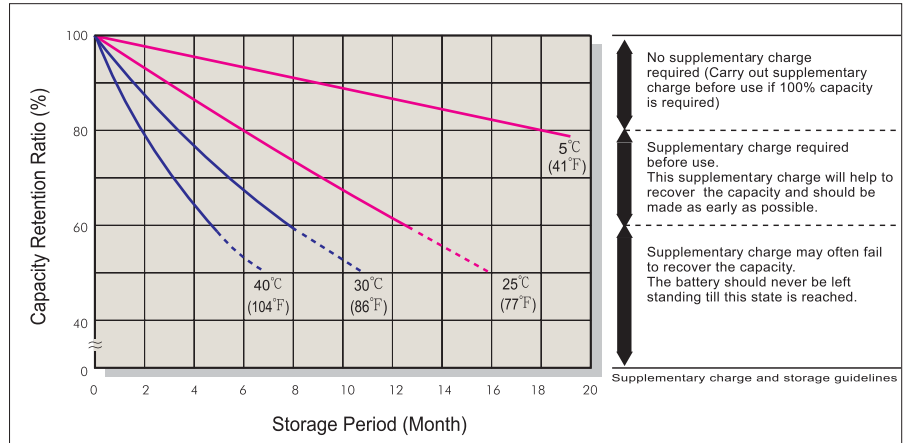
F.V/Time	2MIN	4MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	557	374	293	238	202	148	121	86.1	48.2	33.9
1.67V	521	358	285	233	199	147	120	85.9	48.1	32.8
1.70V	483	340	274	227	196	145	119	85.8	48.0	31.6
1.75V	440	320	263	220	191	144	117	85.6	47.9	30.5
1.80V	393	299	250	212	186	141	116	85.4	47.8	29.4
1.85V	343	275	234	203	180	138	114	85.3	47.7	28.3

- All mentioned values are average values.
- Tolerance: X<6min(+15%~-15%),6min≤X<10min(+12%~-12%),10min≤X<60min(+8%~-8%),X≥60min(+5%~-5%)

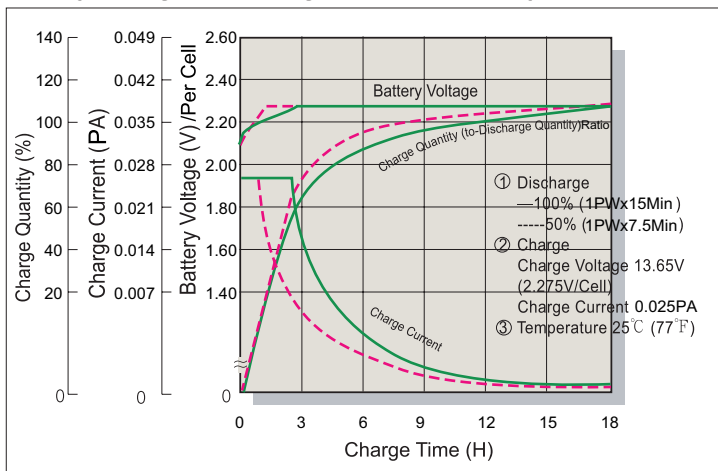
Trickle (or Float) Service Life



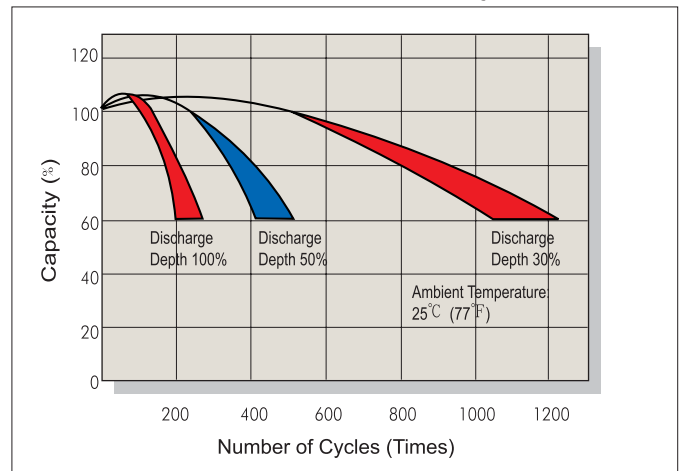
Capacity Retention Characteristic



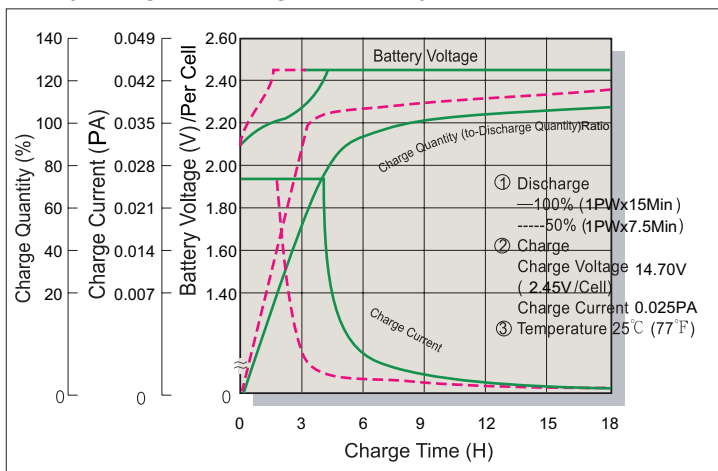
Battery Voltage and Charge Time for Standby Use



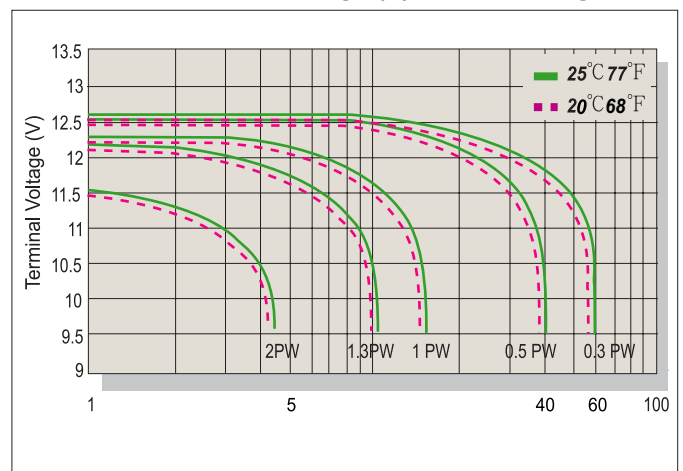
Cycle Service Life



Battery Voltage and Charge Time for Cycle Use



Terminal Voltage (V) and Discharge Time



Charging Procedures

Application	Charge Voltage(V/Cell)			Max.Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25°C(77°F)	2.45	2.40~2.50	0.1PA
Standby	25°C(77°F)	2.275	2.25~2.30	

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/Cell	1.75	1.70	1.60	1.30
Discharge Power(W)	0.1P>(W)	0.1P≤(W)<0.25P	0.25P≤(W)<1.0P	(W)≥1.0P

Sales Office URL: WWW.CSB-BATTERY.COM

CSB BATTERY CO., LTD.
TAIWAN OFFICE
Tel: +886-2-2555-5600
Fax: +886-2-2555-3300
E-mail: service@csb-battery.com.tw

CSB BATTERY TECHNOLOGIES (BEIJING) CO., LTD.
BEIJING OFFICE
Tel: +86-10-59621300/59621301/59621302/59621303
Fax: +86-10-59621304
mail: chinasls@csb-battery.com

CSB BATTERY TECHNOLOGIES, INC
USA OFFICE
Tel: +1-817-244-7777/1-8003 CSBUSA(272872)
Fax: +1-817-244-4445
E-mail: csb@csb-battery.com

CSB BATTERY LOGISTICS (SHANGHAI) CO., LTD.
SHANGHAI OFFICE
Tel: +86-21-5046-1622, 5046-0833
Fax: +86-21-5064-3314
E-mail: chinasls@csb-battery.com

CSB BATTERY OF NETHERLANDS B.V
NETHERLANDS OFFICE
Tel: +31(0) 180 418 140
Fax: +31(0) 180 418 327
E-mail: eurosales@csb-battery.com

CSB BATTERY LOGISTIC (SHANGHAI) CO., LTD.
SHENZHEN OFFICE
Tel: +86-755-8831-6488/6396/16356
Fax: +86-755-8831-6548
mail: she@csb-battery.com.cn

AMEYA360

Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit www.ameya360.com

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com