

SINERGIT

C O T I Z A C I Ó N

Fecha : 12-Mar-19

RNP : 1837
RNC. 1-01-89584-5

Cliente: **Junta Central Electoral**

Santo Domingo.

Proyecto : 2018201-000427 (CP-07-2019)

Validez : 45 días

Vendedor : Greusa Florenzan

Telefono : (809)368-4000 ext 2209

Atención:

Telefono :

Fax:

eMail

Fax : (809)368-5000

eMail florenzang@sinergit.com.do

| Parte # | Descripción | Cant | PrecioRD\$ | Totales RD\$ |
|---------|--|------|----------------------|---------------------|
| | BATERIA CSB 12V 7.2AH P/N: GP1272F2 Para Ups BE550G | 1000 | 1,040.51 | 1,040,510.87 |
| | APC Easy UPS 1 Ph BV Series 650VA / 375W 120VAC 50Hz P/N: BV650 Line Interactive, (6) NEMA battery backup outlets, 9.25 cm x 16.05 cm x 30.5 cm, 2 years warranty. | 200 | 2,490.68 | 498,136.96 |
| | BATERIA CSB 12V 17AH | 150 | 2,123.15 | 318,472.83 |
| | | | SUB-TOTAL | 1,857,120.65 |
| | | | 18% DE ITBIS | 334,281.72 |
| | | | TOTAL GENERAL | 2,191,402.37 |

Forma de Pago 50% CON LA ORDEN, 50% CONTRA ENTREGA.

ENTREGA DOS SEMANAS CALENDARIO LUEGO DE RECIBIDA LA ORDEN DE COMPRA.





APC Easy UPS, Serie BV

Para nuestros clientes de oficinas pequeñas y hogar, APC by Schneider Electric ofrece una nueva categoría de UPS diseñados para las necesidades de protección de energía esenciales incluso en las condiciones de energía más inestables.

Los APC Easy UPS monofásicos interactivos, modelos Back-UPS BV, son un UPS versátil desarrollado para manejar condiciones de energía inconsistentes y, al mismo tiempo, ofrecen el nivel de calidad en la que millones de profesionales de TI confían en todo el mundo.



www.apc.com

Life Is 

APC
by Schneider Electric



Características Estándar de los APC Easy UPS BV, Monofásicos Interactivos

Diseño flexible para dispositivos de alta y baja potencia
Capaz de alimentar dispositivos de baja potencia como su módem, enrutador o VOIP, así como dispositivos de alta potencia como PC y consolas de juegos.

Mantente conectado durante horas, no minutos
Encienda el enrutador y/o módem de su hogar, lo que le permite mantener su conexión a Internet luego de apagar su PC u otros dispositivos de alta potencia.

Regulación automática de voltaje (AVR)
Corrige las caídas de tensión y las sobretensiones a niveles seguros, lo que es especialmente importante para regiones con poca potencia. Esto también ahorra vida útil de la batería corrigiendo fluctuaciones sostenidas de voltaje sin perder energía de la batería.

Protección contra sobretensiones confiable
Protege sus dispositivos electrónicos valiosos contra los rayos dañinos, oleadas y picos.

Montaje en pared
Puede montar el UPS en armarios de cableado, detrás de escritorios, en sótanos y garajes.

Le permite conectar transformadores voluminosos sin bloquear otras salidas.

Tamaño compacto
Se adapta a la instalación en una variedad de entornos

Carga modo apagado inteligente
Continúa cargando la batería incluso cuando el UPS está apagado

Función de arranque en frío
Le permite reiniciar el UPS incluso cuando no hay energía disponible.

Fácil de usar
Conector de batería de un paso

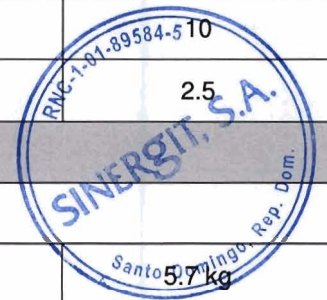
Autodiagnóstico de batería
Alerta a los usuarios con la alarma adecuada para las condiciones de la batería

Garantía de 2 años y siempre en servicio al cliente
El servicio al cliente siempre está disponible cuando lo necesite a través de asistencia telefónica, foros en línea y chats en vivo con los agentes de asistencia de APC

Life Is On

APC
by Schneider Electric

| Modelo de UPS | BV500 | BV650 | BV800 | BV1000 |
|--|---|-----------------|-----------------|-----------------|
| Salida | | | | |
| Capacidad de potencia | 300 W / 500 VA | 375 W / 650 VA | 450 W / 800 VA | 600 W / 1000 VA |
| Voltaje de salida en la batería | 120VAC +/- 10% | | | |
| Rango de frecuencia de salida (modo de sincronización) | 50 Hz or 60 Hz +/- 1 Hz | | | |
| Topología y forma de onda de salida | Linea interactiva, onda senoidal aproximado | | | |
| Conexiones de salida | (6) Tomas NEMA 5-15R con respaldo de la bateria | | | |
| Entrada | | | | |
| Rango de voltaje de entrada | | | | |
| Frecuencia | 50 Hz or 60 Hz | | | |
| Transferencia por bajo voltaje | 89 VAC, típico | | | |
| Transferencia por sobre voltaje | 145 VAC, típico | | | |
| Circuit Breaker de entrada AC | 10 A | | 15 A | |
| Longitud de cordón | 1.5 (m) | | | |
| Conexión de entrada | NEMA 5-15P | | | |
| Bateras | | | | |
| Tipo de Baterias | 12 V / 4.5 AH X1 | 12 V / 7 AH x 1 | 12 V / 7 Ah x 1 | 12 V / 9Ah X 1 |
| Tiempo típico de recarga | 6-8 horas | | | |
| Autonomias estimadas | | | | |
| 120 W Autonomía (min) | 5 | 10 | 15 | 17 |
| 180 W Autonomía (min) | 3 | 6 | 9 | |
| 240 W Autonomía (min) | 0.5 | 2 | 2.5 | 2.5 |
| Características físicas y garantía | | | | |
| Dimensiones (La x An x Prof) | 9.25 cm x 16.05 cm x 30.5 cm | | | |
| Peso neto | 3.9 kg | 4.5 kg | 5.3 kg | 5.7 kg |
| Garantía | 2 Años | | | |



Life Is On





GP 1272 ▶ 12V 7.2Ah

GP 1272 is a general purpose battery up to 5 years in standby service or more than 260 cycles at 100% discharge in cycle service. As with all CSB batteries, all are rechargeable, highly efficient, leak proof and maintenance free.



CSB-manufactured VRLA (Absorbent Glass Mat type) batteries are UL-recognized components under UL1989.

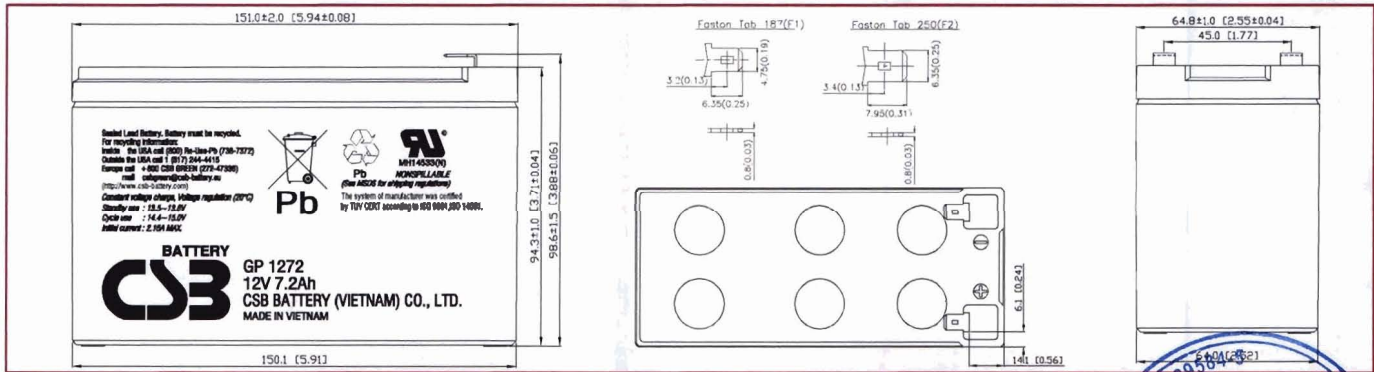
CSB is also certified by ISO 9001 and ISO 14001.

Specification

| | |
|--|---|
| Cells Per Unit | 6 |
| Voltage Per Unit | 12 |
| Capacity | 7.2Ah @ 20hr-rate to 1.75V per cell @25°C (77°F) |
| Weight | Approx. 2.4 kg(5.29 lbs) |
| Maximum Discharge Current | 100A/130A(5sec) |
| Internal Resistance | Approx. 23 mΩ |
| 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 | 2.16A |
| 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 | F1/F2-Faston Tab187/250 |
| Container Material | ABS(UL 94-HB) & Flammability resistance of (UL 94-V0) can be available upon request. |

Dimensions :

| Overall Height (H) | Container height (h) | Length (L) | Width (W) |
|--------------------|----------------------|--------------------|-------------------|
| Unit: mm (inch) | 98.6±1.5 (3.88±0.06) | 94.3±1 (3.71±0.04) | 151±2 (5.94±0.08) |



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

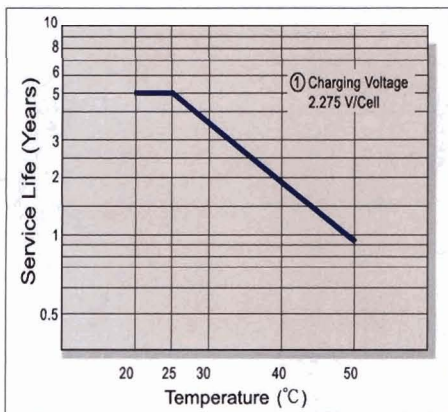
| F.V/Time | 5MIN | 10MIN | 15MIN | 30MIN | 60MIN | 90MIN | 2HR | 3HR | 5HR | 8HR | 10HR | 20HR |
|----------|------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 1.60V | 35.6 | 22.0 | 16.5 | 9.61 | 5.51 | 3.92 | 3.08 | 2.13 | 1.34 | 0.92 | 0.77 | 0.45 |
| 1.67V | 33.1 | 21.0 | 15.9 | 9.36 | 5.41 | 3.85 | 3.02 | 2.08 | 1.31 | 0.90 | 0.76 | 0.44 |
| 1.70V | 31.9 | 20.5 | 15.6 | 9.24 | 5.37 | 3.82 | 3.00 | 2.06 | 1.30 | 0.89 | 0.75 | 0.43 |
| 1.75V | 29.6 | 19.6 | 15.1 | 9.03 | 5.30 | 3.77 | 2.96 | 2.02 | 1.27 | 0.88 | 0.74 | 0.42 |
| 1.80V | 27.2 | 18.6 | 14.4 | 8.77 | 5.23 | 3.71 | 2.91 | 1.98 | 1.25 | 0.87 | 0.73 | 0.42 |
| 1.85V | 24.5 | 17.4 | 13.7 | 8.44 | 5.14 | 3.66 | 2.87 | 1.95 | 1.22 | 0.86 | 0.71 | 0.40 |

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

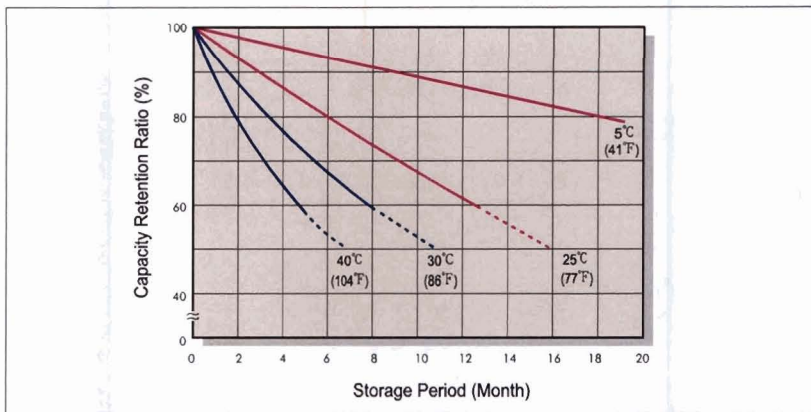
| F.V/Time | 5MIN | 10MIN | 15MIN | 30MIN | 60MIN | 90MIN | 2HR | 3HR | 5HR | 8HR | 10HR | 20HR |
|----------|------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 1.60V | 360 | 245 | 183 | 108 | 64.4 | 47.1 | 37.7 | 26.6 | 17.3 | 11.8 | 9.80 | 5.37 |
| 1.67V | 340 | 235 | 177 | 106 | 63.6 | 46.4 | 37.1 | 26.3 | 17.0 | 11.6 | 9.68 | 5.27 |
| 1.70V | 331 | 231 | 174 | 105 | 63.1 | 46.1 | 36.9 | 26.2 | 16.9 | 11.5 | 9.54 | 5.23 |
| 1.75V | 313 | 222 | 170 | 103 | 62.4 | 45.5 | 36.4 | 25.9 | 16.7 | 11.4 | 9.47 | 5.15 |
| 1.80V | 295 | 213 | 165 | 101 | 61.7 | 45.0 | 35.9 | 25.6 | 16.5 | 11.3 | 9.40 | 5.07 |
| 1.85V | 276 | 202 | 158 | 99 | 60.8 | 44.3 | 35.4 | 25.2 | 16.3 | 11.2 | 9.29 | 4.99 |

Ratings presented herein are subject to revision without notice. Please refer to www.csb-battery.com to confirm the latest version.

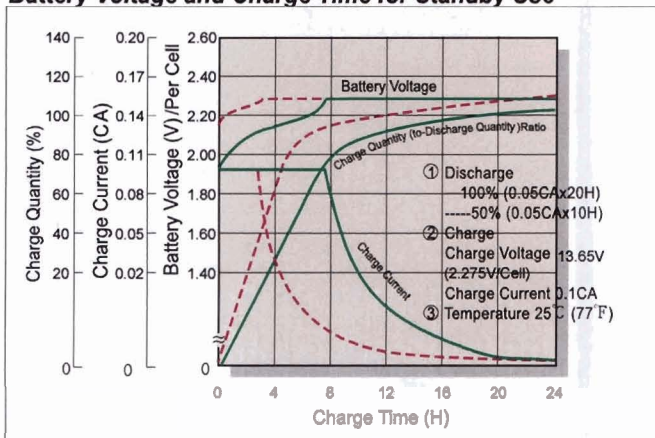
Trickle (or Float) Service Life



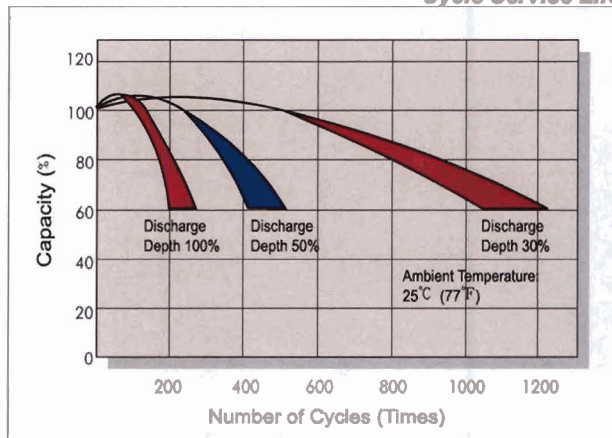
Capacity Retention Characteristic



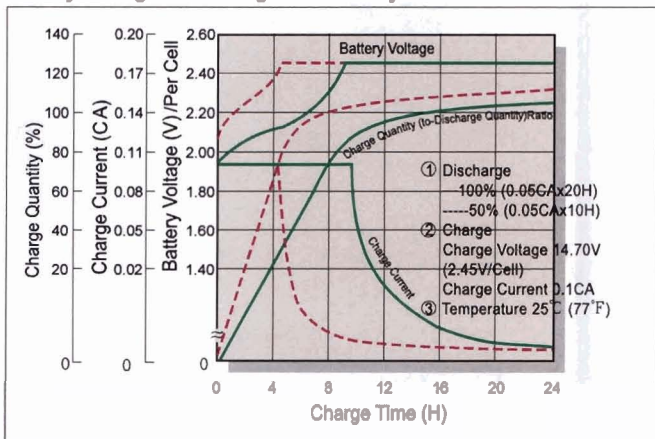
Battery Voltage and Charge Time for Standby Use



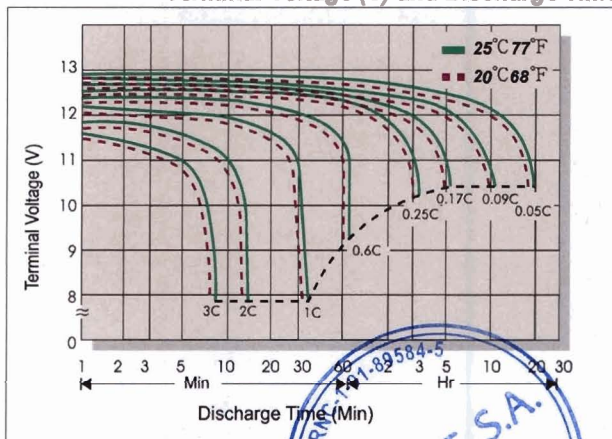
Cycle Service Life



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 | 0.3C |
| 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 | 1.50 |
| Discharge Current(A) | 0.2C>(A) | 0.2C<(A)<0.5C | 0.5C<(A)<1.0C | (A)>1.0C |

Sales Office URL: WWW.CSB-BATTERY.COM

GLOBAL HQ
CSB BATTERY CO., LTD. (TAIWAN)
 Tel : +886-2-2880-5600
 Fax : +886-2-2888-3300
 mail : service@csb-battery.com, tw

BEIJING OFFICE. (CHINA)
CSB BATTERY TECHNOLOGIES (BEIJING) CO., LTD.
 Tel : +86-10-5820-5336/5338
 Fax : +86-10-58203053
 mail : chinasis@csb-battery.com

AMERICA HQ
CSB BATTERY TECHNOLOGIES INC. (U.S.A)
 Tel : +1-817-244-7777/1-(800)3-CSB-USA(272872)
 Fax : +1-817-244-4445
 mail : csb@csb-battery.com
SHANGHAI OFFICE. (CHINA)
CSB BATTERY LOGISTIC (SHANGHAI) CO., LTD.
 Tel : +86-21-5046-1622/5046-0833
 Fax : +86-21-5064-1046
 mail : chinasis@csb-battery.com

EUROPE HQ
CSB Battery Europe BV.
 Tel : +31(0)-180-418-140
 Fax : +31(0)-180-418-327
 mail : eurosales@csb-battery.eu
SHENZHEN OFFICE. (CHINA)
CSB BATTERY LOGISTIC (SHANGHAI) CO., LTD.
 Tel : +86-755-8831-6488/6396/6356
 Fax : +86-755-8831-6548
 mail : she@csb-battery.com

Powered by



GP series

GP 12170 12V 17AH

Valve Regulated Lead Acid Battery

Maintenance-Free Sealed Lead Acid Battery.

Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99%.

Design for Standby Power Applications

【Design Life】

Up to 5 Years in Standby Service at 25°C
Eurobat (20°C) : 3-5 years, Standard Commercial

【Operating Temperature Range】

Nominal Operating Temperature : 25°C (77°F)
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)

【Float Charging Voltage】

13.5 ~ 13.8 VDC/Unit at 25°C (77°F)

【Equalization Charging Voltage】

14.4 ~ 15.0 VDC/Unit at 25°C (77°F)

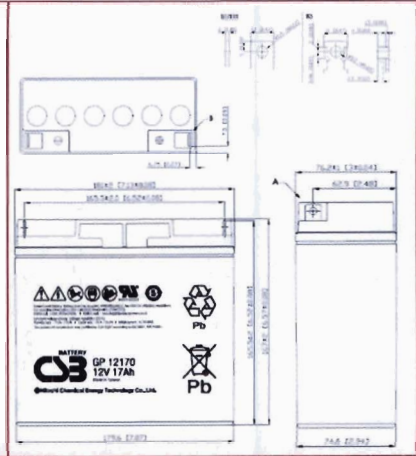
【Self Discharge】

Less than 10% after 90 days, can be stored up to 6 months at 25°C (77°F); Fully recharging is required before usage, and charged sooner if stored at higher temperature than 25°C (77°F).

Specification

Design according with IEC 61056-1/2: 2012

| | | | |
|---------------------------|---|--------------|----------------|
| Nominal Voltage | 12V (6 cells per unit) | | |
| Nominal Capacity | 17 Ah @20hr-rate to 1.75V per cell @25°C (77°F) | | |
| Weight | Approx. 5.50 Kg (12.12 lbs) | | |
| Maximum Discharge Current | 230A (5sec) | | |
| Internal Resistance | Approx. 14.0mΩ | | |
| Short Circuit Current | 532A | | |
| Maximum Charge Current | 5.10A | | |
| Terminal types | B1/B3/B3B terminal to accept M5 bolt | | |
| Terminal hardware Torque | 59 Kgf-cm / 51 Lbf-in / 5.73 N-m | | |
| Container Material | ABS (UL 94-HB) & Flame Retardant (94-V0) available upon request | | |
| Dimensions | Length (L) | 181.0±2.0 mm | 7.13±0.08 inch |
| | Width (W) | 76.2±1.0 mm | 3.00±0.04 inch |
| | Container Height (h) | 167.0±2.0 mm | 6.57±0.08 inch |
| | Overall Height (H) | 167.0±2.0 mm | 6.57±0.08 inch |



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

| F.V/Time | 5 MIN | 10MIN | 15MIN | 30MIN | 60MIN | 90MIN | 2HR | 3HR | 5HR | 8HR | 10HR | 20HR |
|----------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 1.60V | 80.2 | 50.9 | 38.5 | 23.4 | 13.8 | 10.1 | 8.03 | 5.72 | 3.63 | 2.37 | 1.93 | 1.00 |
| 1.67V | 71.2 | 47.5 | 36.5 | 22.9 | 13.7 | 10.0 | 7.99 | 5.69 | 3.61 | 2.35 | 1.90 | 0.95 |
| 1.70V | 67.4 | 45.8 | 35.6 | 22.7 | 13.6 | 9.99 | 7.97 | 5.67 | 3.60 | 2.34 | 1.89 | 0.94 |
| 1.75V | 61.0 | 43.1 | 34.1 | 22.3 | 13.4 | 9.86 | 7.92 | 5.64 | 3.59 | 2.32 | 1.86 | 0.91 |
| 1.80V | 54.5 | 40.2 | 32.7 | 21.8 | 13.3 | 9.79 | 7.87 | 5.61 | 3.58 | 2.30 | 1.83 | 0.88 |
| 1.85V | 48.0 | 37.3 | 31.0 | 21.2 | 13.1 | 9.68 | 7.80 | 5.56 | 3.56 | 2.27 | 1.80 | 0.85 |

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

| F.V/Time | 5MIN | 10MIN | 15MIN | 30MIN | 60MIN | 90MIN | 2HR | 3HR | 5HR | 8HR | 10HR | 20HR |
|----------|------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 1.60V | 890 | 583 | 449 | 281 | 166 | 121 | 96.4 | 68.6 | 43.6 | 28.4 | 23.1 | 12.0 |
| 1.67V | 790 | 544 | 423 | 275 | 164 | 120 | 96.0 | 68.5 | 43.4 | 28.3 | 22.8 | 11.5 |
| 1.70V | 748 | 527 | 413 | 272 | 163 | 119 | 95.8 | 68.4 | 43.3 | 28.2 | 22.7 | 11.3 |
| 1.75V | 677 | 493 | 395 | 267 | 161 | 119 | 95.3 | 67.9 | 43.2 | 27.9 | 22.4 | 10.9 |
| 1.80V | 605 | 460 | 377 | 261 | 160 | 118 | 94.6 | 67.3 | 43.0 | 27.6 | 22.0 | 10.5 |
| 1.85V | 533 | 427 | 361 | 254 | 158 | 116 | 93.8 | 66.8 | 42.9 | 27.3 | 21.7 | 10.1 |

Please refer to the official site for the latest rating confirmation. URL: www.csb-battery.com

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Sales Offices

日立化成能源科技股份有限公司
Hitachi Chemical Energy Technology Co., Ltd.

BUSINESS HEADQUARTERS
Tel: +886-2-2880-5600
Fax: +866-2-2888-3300

USA OFFICE
Tel: +1-817-244-7777 / 1-(800)3-CSB-USA (272872)
Fax: +1-817-244-4445

SHENZHEN OFFICE (CHINA)
Tel: +86-755-8831-6488, 8831-6775
Fax: +86-755-8831-6075

EUROPE (EMEA) OFFICE
Tel: +31(0)180-418-140
Fax: +31(0)180-418-327

SHANGHAI OFFICE (CHINA)
Tel: +86-21-5046-1622, 5046-0833
Fax: +86-21-5046-1046

TAIPEI OFFICE
Tel: +886-2-2880-5600
Fax: +866-2-2888-3300

BEIJING OFFICE (CHINA)
Tel: +86-10-5820-5336, 5820-5338
Fax: +86-10-5820-3053

Recognized under UL 1989,
and certified by ISO 9001, 14001.

