6.0 Cabinets & Batteries

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 02/20/15

Item No.	Description	Data Sheet Part Number	Data Sheet Lab
6.1	XLS-CAB-4 Series	XLS-DR-D4	HON-CB-001
6.2	EQ Cabinet	EQDR-D4/EQBB-D4	HON-CB-002
6.3	BB-100/200 Cabinet	BB-100	HON-CB-003
6.4	Power Sonic Series Battery	PS-1270	HON-CB-004
6.5	Power Sonic Series Battery	PS-12260	HON-CB-005
6.6	Power Sonic Series Battery	PS-12550	HON-CB-006
6.7	Power Sonic Series Battery	PS-121000	HON-CB-007

HON-CB-001

RESURGAM CITY OF PORTLAND, MAINE
Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 02/20/15

XLS-CAB-4 Series

Cabinets, Solid or with Windows — Backboxes with Locking Doors

XLS3000 in "B" sized XLS-CAB-4 cabinet

General

All cabinets for Honeywell's **XLS140-2** and **XLS3000** are fabricated from 16-gauge steel. The cabinet assembly consists of two basic parts: a backbox and a locking door. Cabinets are available in either black or red, with or without windows. The window model provides a tasteful combination to accent the decor of the finest lobby setting.

- The ***key-locked door*** is provided with a pin-type hinge, two keys and the necessary hardware to mount the door to the backbox.
- The ***backbox*** has been engineered to provide ease-of-entry for the installer. ***Knockouts*** are positioned at numerous points to aid the installer in bringing a conduit into the enclosure with a minimum of hardship.
- ***Right- or left-hand hinges***, selectable in the field. Door opens 180°.
- Cabinets are arranged in ***four standard sizes***, A (one tier) through D (four tiers), plus a ***mini cabinet*** (AA, one tier without a battery compartment). See *Ordering Information*.
- A ***trim ring option*** is available for semi-flush mounting.
- ***Chassis bridge*** available for assembling multiple CHS-4 chassis external to the backbox.
- Certified for seismic applications when used with the appropriate **seismic mounting kit**.

Ordering Information

A complete cabinet assembly consists of: a door, a backbox, an optional battery plate, and an optional semi-flush trim ring. For each cabinet required, order one "DR" door and one "SBB" backbox. The XLS-BP2-4 battery plate is required for each cabinet assembly that mounts batteries and/or a power supply in the lower position of the cabinet. The optional trim ring is an attractive "picture frame"-style black metal ring.

MINI "AA" SIZE, ONE TIER

XLS-DR-AA4: Door assembly, window, one tier (no battery compartment), BLACK.

XLS-DR-AA4R: Door assembly, window, one tier (no battery compartment), RED.

XLS-DR-AA4B: Door assembly, solid door, one tier (no battery compartment), BLACK.

XLS-DR-AA4BR: Door assembly, solid door, one tier (no battery compartment), RED.

SBB-AA4: Backbox assembly, one tier (no battery compartment), BLACK.

SBB-AA4R: Backbox assembly, one tier (no battery compartment), RED.

TR-AA4: Accessory semi-flush-mount trim ring, one tier (no battery compartment).

NOTE: *Black trim rings are used with red or black cabinets.*

ONE TIER, "A" SIZE

XLS-DR-A4: Door assembly, window, one tier, BLACK.

XLS-DR-A4R: Door assembly, window, one tier, RED.

XLS-DR-A4B: Door assembly, solid door, one tier, BLACK.

XLS-DR-A4BR: Door assembly, solid door, one tier, RED.

SBB-A4: Backbox assembly, one tier, BLACK.

SBB-A4R: Backbox assembly, one tier, RED.

TR-A4: Accessory semi-flush-mount trim ring, one tier (opening 24.062" [61.118 cm] W x 20.062" [50.958 cm] H), BLACK.

NOTE: *Black trim rings are used with red or black cabinets.*

XLS-BP2-4: Battery plate. Used to cover battery and power supply when lower position is used in backbox.

TWO TIERS, "B" SIZE

XLS-DR-B4: Door assembly, window, two tiers, BLACK.

XLS-DR-B4R: Door assembly, window, two tiers, RED.

XLS-ADDR-B4: Two-tier-sized door designed for use with a CA-2 chassis mounted in the top rows. BLACK.

XLS-ADDR-B4R: Two-tier-sized door designed for use with a CA-2 chassis mounted in the top rows. RED.

XLS-DR-B4B: Door assembly, solid door, two tiers, BLACK.

XLS-DR-B4BR: Door assembly, solid door, two tiers, RED.

SBB-B4: Backbox assembly, two tiers, BLACK.

SBB-B4R: Backbox assembly, two tiers, RED.

TR-B4: Accessory semi-flush-mount trim ring, two tiers (opening 24.062" [61.118 cm] W x 28.562" [72.548 cm] H), BLACK.

NOTE: *Black trim rings are used with red or black cabinets.*

XLS-BP2-4: Battery plate. Used to cover battery and power supply when lower position is used in backbox.

THREE TIERS, "C" SIZE

XLS-DR-C4: Door assembly, window, three tiers, BLACK.

XLS-DR-C4R: Door assembly, window, three tiers, RED.

XLS-ADDR-C4: Three-tier-sized door designed for use with a CA-2 chassis mounted in the top rows. BLACK.

XLS-ADDR-C4R: Three-tier-sized door designed for use with a CA-2 chassis mounted in the top rows. RED.

XLS-DR-C4B: Door assembly, solid door, three tiers, BLACK.

XLS-DR-C4BR: Door assembly, solid door, three tiers, RED.

SBB-C4: Backbox assembly, three tiers, BLACK.

SBB-C4R: Backbox assembly, three tiers, RED.

TR-C4: Accessory semi-flush-mount trim ring, three tiers (opening 24.062" [61.118 cm] W x 37.187" [94.455 cm] H), BLACK.

NOTE: *Black trim rings are used with red or black cabinets.*

XLS-BP2-4: Battery plate. Used to cover battery and power supply when lower position is used in backbox.

FOUR TIERS, "D" SIZE

XLS-DR-D4: Door assembly, window, four tiers, BLACK.

XLS-DR-D4R: Door assembly, window, four tiers, RED.

XLS-ADDR-D4: Four-tier-sized door designed for use with a CA-2 chassis mounted in the top rows. BLACK.

XLS-ADDR-D4R: Four-tier-sized door designed for use with a CA-2 chassis mounted in the top rows. RED.

XLS-DR-D4B: Door assembly, solid door, four tiers, BLACK.

XLS-DR-D4BR: Door assembly, solid door, four tiers, RED.

SBB-D4: Backbox assembly, four tiers, BLACK.

SBB-D4R: Backbox assembly, four tiers, RED.

TR-D4: Accessory semi-flush-mount trim ring, four tiers (opening 24.062" [61.118 cm] W x 45.812" [116.363 cm] H), BLACK.

NOTE: *Black trim rings are used with red or black cabinets.*

XLS-BP2-4: Battery plate. Used to cover battery and power supply when lower position is used in backbox.

ACCESSORIES

ADP-4B: Annunciator dress panel.

CB-1: Chassis bridge. Provides a brid
chassis.

DP-1B: Blank dress panel, covers one

SEISKIT-CAB: Seismic mounting kit.
certified applications with XLS3000 a
battery bracket for two 26 AH batteries

VP-2B: Ventilator panel.

WC-2: Wire channel. Provides a pair
route wiring between CHS chassis.

RESURGAM CITY OF PORTLAND, MAINE
Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 02/20/15

Agency Listings and Approvals

These listings and approvals below apply to the XLS-CAB-4 Series Cabinets. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL** Listed: S470
- **ULC** Listed: S470
- **MEA**: 317-01-E Vol. IV
- **CSFM**: 7165-1130:0265 (XLS140-2), 7165-1130:0256 (XLS3000)
- **FM** approved
- **FDNY:** COA# 6076 (XLS140-2), #6060 (XLS3000)

XLS-CAB-4 Series cabinets with SEISKIT-CAB comply with seismic requirements of **IBC 2000, IBC 2003, IBC 2006, IBC2009**, and **CBC 2007**.

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 02/20/15

Cabinet Dimensions and Features

RESURGAM, CITY OF PORTLAND, MAINE
Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 02/20/15

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 02/20/15

The* XLS-BP2-*4 Battery Plate covers the Main Power Supply and the batteries in the cabinet. Only one* XLS-BP2-4 *is required per cabinet unless an AA cabinet is used (no battery compartment).

"D" sized cabinet with solid door. Solid door option available on all sizes in black or red.

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 02/20/15

This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

©2011 by Honeywell International Inc. All rights reserved. Unauthorized use of this document is strictly prohibited.

Automation and Control Solutions

Honeywell International Inc.
1985 Douglas Drive North
Golden Valley, MN 55422
www.honeywell.com

Honeywell Limited-Honeywell Limitée
35 Dynamic Drive
Scarborough, Ontario M1V 4Z9

85-3002-2 Rev. 07-11
July 2011
Made in the U.S.A.
® U.S. Registered Trademark
© 2011 Honeywell International Inc.

ISO 9001 CERTIFIED ENGINEERING & MANUFACTURING QUALITY SYSTEMS

85-3002-2

HON-CB-002

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 02/20/15

EQ Cabinet

Equipment Backboxes with Ventilated Locking Doors

General

EQ Series cabinets provide an effective solution for applications that require distributed components such as power supplies, amplifiers, and multiple I/O modules. The EQ Series provides superior ventilation for devices such as amplifiers and field power supplies, ample room for wire or fiber-optic media between each row, and a space efficient package that allows for the consolidation of multiple system components in a single enclosure.

Equipment cabinets use a perforated blank door for enhanced ventilation, and do not support the mounting of backbox mounted dress plates. Therefore these cabinets are not appropriate for equipment that would be normally accessed by a system operator such as control equipment, annunciators, or remote microphones.

EQ cabinets share the same external dimensions as the familiar CAB-4 Series cabinets. EQ Series cabinets differ in that they do not include a separate battery row. See illustrations below for examples of EQ cabinet row spacing.

Specifications

- Equipment cabinets are fabricated from 16-gauge steel. The cabinet assembly consists of two basic parts: a backbox and a locking door. Cabinets are available in black.
- The key-locked door is provided with a pin-type hinge, two keys and the necessary hardware to mount the door to the backbox.
- The backbox has been engineered to provide ease-of-entry for the installer. Knockouts are positioned at numerous points to aid the installer in bringing a conduit into the enclosure with a minimum of hardship.
- Right- or left-hand hinges, selectable in the field. Door opens 180°.
- Cabinets are arranged in 3 standard sizes, B (two tiers) through D (four tiers). See Ordering Information.
- Trim ring options are available for semi-flush mounting.

Equipment Compatible for Use in EQ Series Cabinets

- DAA2 Series Amplifiers
- DAX Series Amplifiers
- DS-DB Digital Series Distribution Board
- DS-AMP Digital Series Amplifier
- AA-30 Audio Amplifiers
- AA-100 Audio Amplifiers
- AA-120 Audio Amplifiers
- ACPS-610 Power Supply
- AMPS-24 Power Supply
- HPPF8/8CM Power Supply
- HPPF12/12CM Power Supply
- XP6-C Modules
- XP6-MA Modules
- XP6-R Modules
- XP10-MA Modules

Agency Listings and Approvals

These listings and approvals below apply to the EQ cabinet. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be process. Consult factory for latest listing status.

- **UL Listed:** S635, S470.
- **ULC Listed:** S635, S470.
- **CSFM:** 7165-1130:0265 (XLS140-2), 7165-1130:0256 (XLS3000).
- **FDNY:** COA#6060 (XLS3000), #6076 (XLS140-2).

Ordering Information

A complete cabinet assembly consists of: a door, a backbox, and an optional semi-flush trim ring. For each cabinet required, order one "EQDR" door and one "EQBB" backbox.

The optional trim ring is an attractive "picture frame"-style black metal ring.

TWO TIERS, "B" SIZE:

EQDR-B4: Door assembly, vented door, two tiers, BLACK.

EQBB-B4: Backbox assembly, two tiers, BLACK.

TR-B4: Semi-flush-mount trim ring, two tiers.

THREE TIERS, "C" SIZE:

EQDR-C4: Door assembly, vented door, three tiers, BLACK.

EQBB-C4: Backbox assembly, three tiers, BLACK.

TR-C4: Semi-flush-mount trim ring, three tiers.

FOUR TIERS, "D" SIZE:

EQDR-D4: Door assembly, vented door, four tiers, BLACK.

EQBB-D4: Backbox assembly, four tier

TR-D4: Semi-flush-mount trim ring, fou

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 02/20/15

CABINET DRAWINGS AND FEATURES

EQDR-D4

EQBB-D4 Box

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 02/20/15

EQDR-C4 **EQBB-C4 Box**

EQDR-B4 **EQBB-B4 Box**

Mounting Hole

Side View of Backbox (EQBB-D4)

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 02/20/15

Top View of Backbox

This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

©2012 by Honeywell International Inc. All rights reserved. Unauthorized use of this document is strictly prohibited.

Automation and Control Solutions

Honeywell International Inc.
1985 Douglas Drive North
Golden Valley, MN 55422
www.honeywell.com

Honeywell Limited-Honeywell Limitée
35 Dynamic Drive
Scarborough, Ontario M1V 4Z9

Honeywell

85-3110-3 Rev. 01-12
January 2012
Made in the U.S.A.
® U.S. Registered Trademark
© 2012 Honeywell International Inc.

ISO 9001 CERTIFIED
ENGINEERING & MANUFACTURING QUALITY SYSTEMS

85-3110-3

HON-CB-003

BB-100/200 Cabin
Product Installation Do

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

PN 51981:A1 12/05/2006 06· Date: 02/20/15

The **BB-100 Cabinet** is lockable, hinged on the left, and shipped fully assembled. It can mount a power supply and up to two BAT-12100 100AH batteries. It is designed to be mounted a minimum of 6 inches (15.24 cm.) below the Fire Alarm Control Panel. Below are the cabinet dimensions for installation.

WARNING: Cabinet will be very heavy.
The total weight of a fully loaded BB-100 will exceed 175 pounds. Additional support may be required when mounting this cabinet to a wall.

BB-100 Door

BB100_door.wmf

BB-100 Cabinet

Note: All 0.437 in. (1.11 cm.) diameter mounting holes will accommodate up to 3/8 in. mounting hardware.

BB100_backbox.wmf

The **BB-200 Cabinet** is lockable, hinged on the left, and shipped assembled. It can mount a power sup
BAT-12100 100AH batteries. It is designed to be mounted a minimum of 6 inches (15.24 cm.) below t
Control Panel. Below are the cabinet dimensions for installation.

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 02/20/15

WARNING: Cabinet will be very heavy.
The total weight of a fully loaded BB-200 will exceed 300 pounds. Additional support may be r
mounting this cabinet to a wall.

BB-200 Door

BB200_door.wmf

BB-200 Cabinet

BB200_backbox.wmf

HON-CB-004

PS-1270 12 Volt 7.0 AH

Rechargeable Sealed Lead Acid Battery

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 02/20/15

Features

- Absorbent Glass Mat (AGM) technology for superior performance
- Valve regulated, spill proof construction allows safe operation in any position
- Power/volume ratio yielding unrivaled energy density
- Rugged impact resistant ABS case and cover (UL94-HB)
- Approved for transport by air. D.O.T., I.A.T.A., F.A.A. and C.A.B. certified
- U.L. recognized under file number MH 20845

Terminals (mm)

- F1 - Quick disconnect tabs, 0.187" x 0.032"- Mate with AMP. INC. FASTON "187" series

— OR —

- F2 - Quick disconnect tabs, 0.250" x 0.032" - Mate with AMP. INC FASTON "250" series

Physical Dimensions: in (mm)

L: 5.95 (151) **W:** 2.56 (65) **H:** 3.70 (94) **HT:** 3.86 (98)

Tolerances are +/- 0.04 in. (+/- 1mm) and +/- 0.08 in. (+/- 2mm) for height dimensions. All data subject to change without notice.

Performance Specifications

Nominal Voltage ..... 12 volts (6 cells)

Nominal Capacity

20-hr.	(350mA to 10.50 volts)	7.00 AH
10-hr.	(650mA to 10.50 volts)	6.50 AH
5-hr.	(1.2A to 10.20 volts)	6.00 AH
1-hr.	(4.5A to 9.00 volts)	4.50 AH
15-min.	(14A to 9.00 volts)	3.50 AH

Approximate Weight ..... 4.80 lbs. (2.18 kg)

Energy Density (20-hr. rate) ..... 1.49 W-h/in3 (90.95 W-h/l)

Specific Energy (20-hr. rate) ..... 17.50 W-h/lb (38.58 W-h/kg)

Internal Resistance (approx.) ..... 23 milliohms

Max Discharge Current (7 Min.) ..... 21.0 amperes

Max Short-Duration Discharge Current (10 Sec.)..... 70.0 amperes

Shelf Life (% of nominal capacity at 68°F (20°C))

1 Month	97%
3 Months	91%
6 Months	83%

Operating Temperature Range

Charge..	-4°F (-20°C) to 122°F (50°C)
Discharge	-40°F (-40°C) to 140°F (60°C)

Case ..... ABS Plastic

Power-Sonic Chargers PSC-12800A, 12800A-C

RESURGAM CITY OF PORTLAND, MAINE
Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 02/20/15

Shelf Life & Storage

Discharge Char

Discharge Time vs. Discharge Current

Life Characteristics in Stand-By Use

Life Characteristics in Cyclic Use

Charging

Cycle Applications: Limit initial current to 2.1A. Charge until battery voltage (under charge) reaches 14.4 to 14.7 volts at 68°F (20°C). Hold at 14.4 to 14.7 volts until current drops to under 70mA. Battery is fully charged under these conditions, and charger should be disconnected or switched to "float" voltage.

"Float" or "Stand-By" Service: Hold battery across constant voltage source of 13.5 to 13.8 volts continuously. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

Note: Due to the self-discharge characteristics of this type of battery, it is imperative that they be charged within 6 months of storage, otherwise permanent loss of capacity might occur as a result of sulfation.

Chargers

Power-Sonic offers a wide range of chargers suitable for batteries up to 100AH. Please refer to the Charger Selection Guide in our specification sheets for "C-Series Switch Mode Chargers" and "Transformer Type A and F Series". Please contact our Technical department for advice if you have difficulty in locating suitable models.

Further Information

Please refer to our website www.power-sonic.com for a complete range of useful downloads, such as product catalogs, material safety data sheets (MSDS), ISO certification, etc..

Contact Information

www.power-sonic.com

DOMESTIC SALES	CUSTOMER SERVICE	TECHNICAL SUPPORT	INTERNATIONAL SALES
Tel: +1-619-661-2020	Tel: +1-619-661-2030	Tel: +1-619-661-2020	Tel: +1-650-364-5001
Fax: +1-619-661-3650	Fax: +1-619-661-3648	Fax: +1-619-661-3648	Fax: +1-650-366-3662
national-sales@power-sonic.com	customer-service@power-sonic.com	support@power-sonic.com	international-sales@power-sonic.com

CORPORATE OFFICE • 7550 Panasonic Way • San Diego, CA 92154 • USA • Tel: +1-619-661-2020 • Fax: +1-619-661-3650

0211 1M

© 2011. Power-Sonic Corporation. All rights reserved. All trademarks are the property of their respective owners.

HON-CB-005

PS-12260 12 Volt 26.0 AH

Rechargeable Sealed Lead Acid Battery

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 02/20/15

Features

- Absorbent Glass Mat (AGM) technology for superior performance
- Valve regulated, spill proof construction allows safe operation in any position
- Power/volume ratio yielding unrivaled energy density
- Rugged impact resistant ABS case and cover (UL94-HB)
- Approved for transport by air. D.O.T., I.A.T.A., F.A.A. and C.A.B. certified
- U.L. recognized under file number MH 20845

Terminals (mm)

- F2 - Quick disconnect tabs, 0.250" x 0.032" - Mate with AMP. INC FASTON "250" series
- NB2: Tin plated brass post with 5mm nut & bolt connectors
- T12 - Threaded insert with 5mm stud

Physical Dimensions: in (mm)

L: 6.56 (167) **W:** 6.97 (177) **H:** 4.92 (125) **HT:** 4.92 (125)

Tolerances are +/- 0.04 in. (+/- 1mm) and +/- 0.08 in. (+/- 2mm) for height dimensions. All data subject to change without notice.

Performance Specifications

Nominal Voltage ..... 12 volts (6 cells)

Nominal Capacity

20-hr.	(1.3A to 10.50 volts)	26.0 AH
10-hr.	(2.4A to 10.50 volts)	24.0 AH
5-hr.	(4.4A to 10.20 volts)	22.0 AH
1-hr.	(16.1A to 9.00 volts)	16.1 AH
15-min.	(51A to 9.00 volts)	12.8 AH

Approximate Weight ..... 17.00 lbs. (7.71 kg)

Energy Density (20-hr. rate) ..... 1.39 W-h/in3 (84.64 W-h/l)

Specific Energy (20-hr. rate) ..... 18.35 W-h/lb (40.46 W-h/kg)

Internal Resistance (approx.) ..... 14 milliohms

Max Discharge Current (7 Min.) ..... 78.0 amperes

Max Short-Duration Discharge Current (10 Sec.)..... 260.0 amperes

Shelf Life (% of nominal capacity at 68°F (20°C))

1 Month	97%
3 Months	91%
6 Months	83%

Operating Temperature Range

Charge	-4°F (-20°C) to 122°F (50°C)
Discharge	-40°F (-40°C) to 140°F (60°C)

Case ..... ABS Plastic

Power-Sonic Chargers PSC-122000A, 124000A, 122000A-C, 124000A-C

RESURGAM CITY OF PORTLAND, MAINE
Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 02/20/15

Shelf Life & Storage

Discharge Char

Discharge Time vs. Discharge Current

Life Characteristics in Stand-By Use

Life Characteristics in Cyclic Use

Charging

Cycle Applications: Limit initial current to 7.8A. Charge until battery voltage (under charge) reaches 14.4 to 14.7 volts at 68°F (20°C). Hold at 14.4 to 14.7 volts until current drops to under 260mA. Battery is fully charged under these conditions, and charger should be disconnected or switched to "float" voltage.

"Float" or "Stand-By" Service: Hold battery across constant voltage source of 13.5 to 13.8 volts continuously. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

Note: Due to the self-discharge characteristics of this type of battery, it is imperative that they be charged within 6 months of storage, otherwise permanent loss of capacity might occur as a result of sulfation.

Chargers

Power-Sonic offers a wide range of chargers suitable for batteries up to 100AH. Please refer to the Charger Selection Guide in our specification sheets for "C-Series Switch Mode Chargers" and "Transformer Type A and F Series". Please contact our Technical department for advice if you have difficulty in locating suitable models.

Further Information

Please refer to our website www.power-sonic.com for a complete range of useful downloads, such as product catalogs, material safety data sheets (MSDS), ISO certification, etc..

Contact Information

www.power-sonic.com

DOMESTIC SALES	CUSTOMER SERVICE	TECHNICAL SUPPORT	INTERNATIONAL SALES
Tel: +1-619-661-2020	Tel: +1-619-661-2030	Tel: +1-619-661-2020	Tel: +1-650-364-5001
Fax: +1-619-661-3650	Fax: +1-619-661-3648	Fax: +1-619-661-3648	Fax: +1-650-366-3662
national-sales@power-sonic.com	customer-service@power-sonic.com	support@power-sonic.com	international-sales@power-sonic.com

CORPORATE OFFICE • 7550 Panasonic Way • San Diego, CA 92154 • USA • Tel: +1-619-661-2020 • Fax: +1-619-661-3650

0812 1M

© 2012. Power-Sonic Corporation. All rights reserved. All trademarks are the property of their respective owners.

HON-CB-006

PS-12550 12 Volt 55.0 AH

Rechargeable Sealed Lead Acid Battery

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 02/20/15

Features

- Absorbent Glass Mat (AGM) technology for superior performance
- Valve regulated, spill proof construction allows safe operation in any position
- Power/volume ratio yielding unrivaled energy density
- Rugged impact resistant ABS case and cover (UL94-HB)
- Integrated ABS carrying handles for ease of movement
- Approved for transport by air. D.O.T., I.A.T.A., F.A.A. and C.A.B. certified
- U.L. recognized under file number MH 20845

Terminals (mm)

- U: Universal terminals: Heavy-duty posts with 'nut & bolt' fasteners

Performance Specifications

Nominal Voltage ..... 12 volts (6 cells)

Nominal Capacity

20-hr.	(2.75A to 10.50 volts)	55.0 AH
10-hr.	(5.1A to 10.50 volts)	51.0 AH
5-hr.	(8.8A to 10.20 volts)	44.0 AH
1-hr.	(30.6A to 9.00 volts)	30.6 AH
15-min.	(96A to 9.00 volts)	24.0 AH

Approximate Weight ..... 36.0 lbs. (16.33 kg)

Energy Density (20-hr. rate) ..... 1.64 W-h/in3 (100.30 W-h/l)

Specific Energy (20-hr. rate) ..... 17.65 W-h/lb (38.91 W-h/kg)

Internal Resistance (approx.) ..... 7 milliohms

Max Discharge Current (7 Min.) ..... 165.0 amperes

Max Short-Duration Discharge Current (10 Sec.)..... 410.0 amperes

Shelf Life (% of nominal capacity at 68°F (20°C))

1 Month	97%
3 Months	91%
6 Months	83%

Operating Temperature Range

Charge..	-4°F (-20°C) to 122°F (50°C)
Discharge	-40°F (-40°C) to 140°F (60°C)

Case ..... ABS Plastic

Power-Sonic Chargers PSC-1210000A-C

Physical Dimensions: in (mm)

L: 9.04 (230) **W:** 5.45 (138) **H:** 8.15 (207) **HT:** 8.98 (228)

Tolerances are +/- 0.04 in. (+/- 1mm) and +/- 0.08 in. (+/- 2mm) for height dimensions. All data subject to change without notice.

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 02/20/15

Constant Power Discharge Ratings

MODEL	FINAL VOLTAGE	WATTS PER CELL @ 25° C						
		5 MIN	10 MIN	15 MIN	20 MIN	30 MIN		
PS-12550	1.75	320	210	184	153	115		
	1.70	342	225	190	158	118	89	73
	1.67	354	230	194	160	120	90	74

Discharge Time vs. Discharge Current

Discharge Characteristics

Shelf Life & Storage

Charging

Cycle Applications: Limit initial current to 16.5A. Charge until battery voltage (under charge) reaches 14.4 to 14.7 volts at 68°F (20°C). Hold at 14.4 to 14.7 volts until current drops to under 550mA. Battery is fully charged under these conditions, and charger should be disconnected or switched to "float" voltage.

"Float" or "Stand-By" Service: Hold battery across constant voltage source of 13.5 to 13.8 volts continuously. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

Note: Due to the self-discharge characteristics of this type of battery, it is imperative that they be charged within 6 months of storage, otherwise permanent loss of capacity might occur as a result of sulfation.

Chargers

Power-Sonic offers a wide range of chargers suitable for batteries up to 100AH. Please refer to the Charger Selection Guide in our specification sheets for "C-Series Switch Mode Chargers" and "Transformer Type A and F Series". Please contact our Technical department for advice if you have difficulty in locating suitable models.

Further Information

Please refer to our website www.power-sonic.com for a complete range of useful downloads, such as product catalogs, material safety data sheets (MSDS), ISO certification, etc..

Contact Information

www.power-sonic.com

DOMESTIC SALES
Tel: +1-619-661-2020
Fax: +1-619-661-3650
national-sales@power-sonic.com

CUSTOMER SERVICE
Tel: +1-619-661-2030
Fax: +1-619-661-3648
customer-service@power-sonic.com

TECHNICAL SUPPORT
Tel: +1-619-661-2020
Fax: +1-619-661-3648
support@power-sonic.com

INTERNATIONAL SALES
Tel: +1-650-364-5001
Fax: +1-650-366-3662
battery@power-sonic.com

CORPORATE OFFICE • 7550 Panasonic Way • San Diego, CA 92154 • USA • Tel: +1-619-661-2020 • Fax: +1-619-661-3650

0309 1M

HON-CB-007

PS-121000 12 Volt 100.0 AH

Rechargeable Sealed Lead Acid Battery

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 02/20/15

Features

- Absorbent Glass Mat (AGM) technology for superior performance
- Valve regulated, spill proof construction allows safe operation in any position
- Power/volume ratio yielding unrivaled energy density
- Rugged impact resistant ABS case and cover (UL94-HB)
- Integrated ABS carrying handles for ease of movement
- Approved for transport by air. D.O.T., I.A.T.A., F.A.A. and C.A.B. certified
- U.L. recognized under file number MH 20845

Terminals: in (mm)

- U: Universal terminals: Heavy-duty posts with 'nut & bolt' fasteners
- T6: Threaded insert w. 6 mm stud fastener

Physical Dimensions: in (mm)

L: 12.00 (305) W: 6.60 (168) H: 8.15 (207) HT: 8.98 (228)

Tolerances are +/- 0.04 in. (+/- 1mm) and +/- 0.08 in. (+/- 2mm) for height dimensions. All data subject to change without notice.

Performance Specifications

Nominal Voltage ..... 12 volts (6 cells)

Nominal Capacity

20-hr.	(5A to 10.50 volts)	100.0 AH
10-hr.	(9.2A to 10.50 volts)	92.0 AH
5-hr.	(15.8A to 10.20 volts)	79.0 AH
1-hr.	(55.2A to 9.00 volts)	55.2 AH
15-min.	(175A to 9.00 volts)	43.8 AH

Approximate Weight ..... 68.00 lbs. (30.84 kg)

Energy Density (20-hr. rate) ..... 1.86 W-h/in3 (113.45 W-h/l)

Specific Energy (20-hr. rate) ..... 17.65 W-h/lb (38.91 W-h/kg)

Internal Resistance (approx.) ..... 5 milliohms

Max Discharge Current (7 Min.) ..... 300.0 amperes

Max Short-Duration Discharge Current (10 Sec.) .. 750.0 amperes

Shelf Life (% of nominal capacity at 68°F (20°C)

1 Month	97%
3 Months	91%
6 Months	83%

Operating Temperature Range

Charge	-4°F (-20°C) to 122°F (50°C)
Discharge	-40°F (-40°C) to 140°F (60°C)

Case ..... ABS Plastic

Power-Sonic Chargers PSC-1210000A-C

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 02/20/15

Constant Power Discharge Ratings

MODEL	FINAL VOLTAGE	WATTS PER CELL @ 25° C						
		5 MIN	10 MIN	15 MIN	20 MIN	30 MIN		
PS-121000	1.75	550	395	312	267	207		
	1.70	586	413	324	277	212	155	129
	1.67	605	421	330	283	215	158	130

Discharge Time vs. Discharge Current

Discharge Characteristics

Shelf Life & Storage

Cycle Applications: Limit initial current to 20A. Charge until battery voltage (under charge) reaches 14.4 to 14.7 volts at 68°F (20°C). Hold at 14.4 to 14.7 volts until current drops to under 1A. Battery is fully charged under these conditions, and charger should be disconnected or switched to "float" voltage.

"Float" or "Stand-By" Service: Hold battery across constant voltage source of 13.5 to 13.8 volts continuously. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

Note: Due to the self-discharge characteristics of this type of battery, it is imperative that they be charged within 6 months of storage, otherwise permanent loss of capacity might occur as a result of sulfation.

Chargers

Power-Sonic offers a wide range of chargers suitable for batteries up to 100AH. Please refer to the Charger Selection Guide in our specification sheets for "C-Series Switch Mode Chargers" and "Transformer Type A and F Series". Please contact our Technical department for advice if you have difficulty in locating suitable models.

Further Information

Please refer to our website www.power-sonic.com for a complete range of useful downloads, such as product catalogs, material safety data sheets (MSDS), ISO certification, etc..

Contact Information

www.power-sonic.com

DOMESTIC SALES	CUSTOMER SERVICE	TECHNICAL SUPPORT	INTERNATIONAL SALES
Tel: +1-619-661-2020	Tel: +1-619-661-2030	Tel: +1-619-661-2020	Tel: +1-650-364-5001
Fax: +1-619-661-3650	Fax: +1-619-661-3648	Fax: +1-619-661-3648	Fax: +1-650-366-3662
national-sales@power-sonic.com	customer-service@power-sonic.com	support@power-sonic.com	international-sales@power-sonic.com

CORPORATE OFFICE • 7550 Panasonic Way • San Diego, CA 92154 • USA • Tel: +1-619-661-2020 • Fax: +1-619-661-3650

0114 1M

© 2013. Power-Sonic Corporation. All rights reserved. All trademarks are the property of their respective owners.