



# Power Supply Portfolio

## March 2011



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# Power Supply Overview



- Full product line designed to address the needs of the Access Control market.
- All power supplies and option boards are UL294 Listed.
- All supplies will accept option boards without need for special rack or adapter
- Same power rating at ideal 12 and 24 VDC, with universal 110 – 220 V input
- New alarm board mounting provides greater configuration possibilities
- VDI power supply output increased to 4 amps, more options with available option boards
- New 6 amp power supply to address unserved access control markets

**Increased Functionality...**

**Redesigned to Simplify Installation & Wiring and Improve Performance**

# Power Supply Overview Cont'd

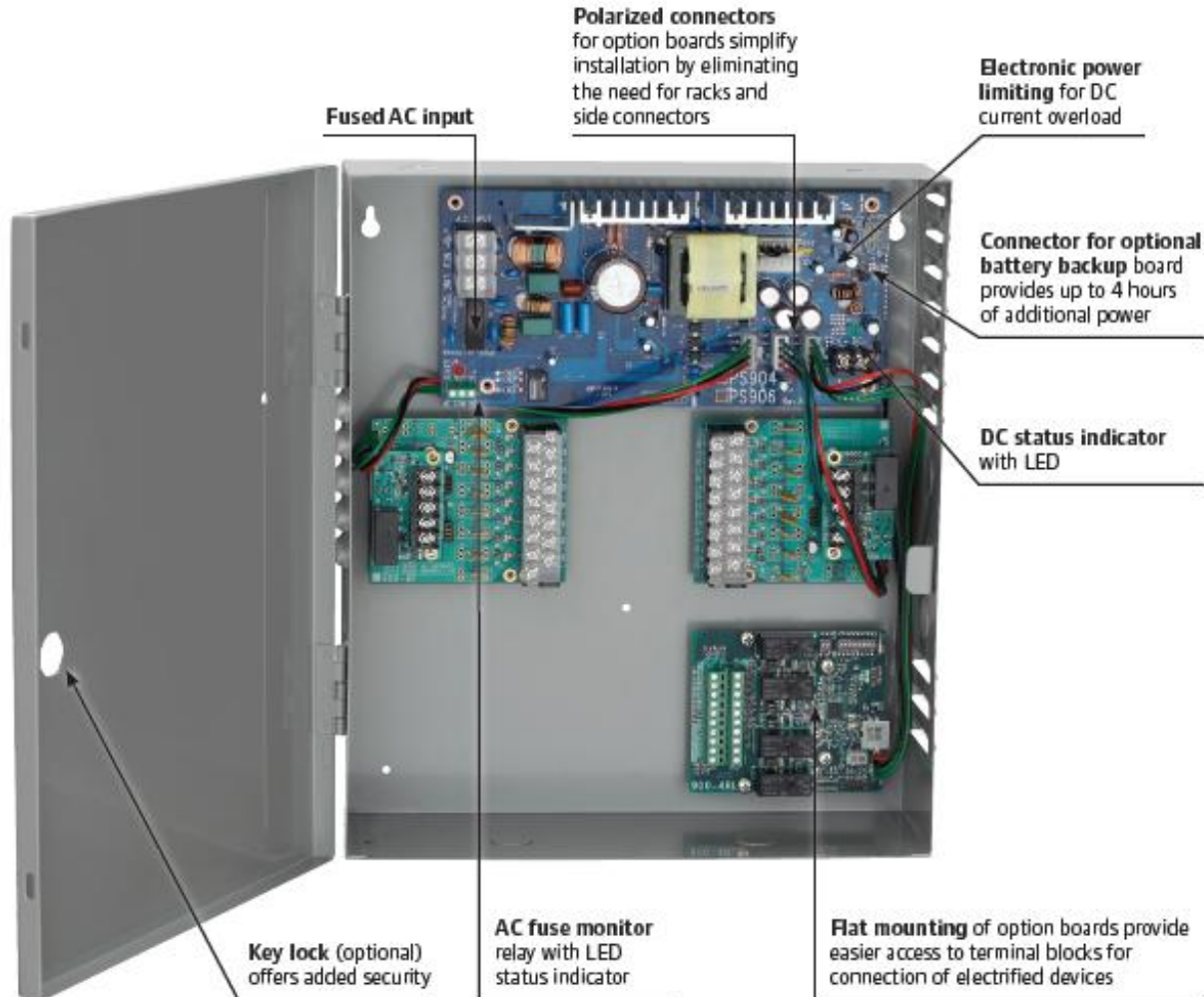


- All option boards now compatible with all power supplies \*
- New option boards available (8F, 8P)
- Electronic current limiting replaces main fusing (eliminates slo-blo fuse)
- Additional options added to logic board
  - Field configurable, one board, by setting of dip switches
- Battery board auto-selects voltage
- Universal input 120/240 VAC 50/60 Hz

*\* 900-2RS controls EL only and therefore limited to 914.*

**Increased Functionality...**  
**Redesigned to Simplify Installation & Wiring and Improve Performance**





# PS900 Power Supplies Design Highlights



Note: The PS906 power supply is pictured above configured with two 900-8P FXs and one 900-4RL.

# Power Supply Cross Reference List



PS900 Model	PS900 Summary	Legacy Supply
PS902 	2 A @ 12/ 24V 1 option board connector 1 fire alarm connector 1 battery board plug	505 (1A @ 12/24V) 510 (2A @ 24V) 861 (2A @ 12V, 1A @ 24V)
PS904 	4 A @ 12/24V 2 option board connectors 1 battery board connector	510 (3A @ 12V) 873 (4A @ 12V 2A @ 24V) - no inrush app's SBB-3 (24V, 3A)
PS906 	6A @ 12/24V 3 option board connectors 1 battery board connector	515 (5A @ 24V) SBB-5 (5A @ 24V) 515 (10A @ 12V) – no exact match SBB-20 (10A @ 24V) – no exact match
PS914 (Designed with hi-inrush for EL's) 	12/24V, 4A Hi Inrush 2 option board connectors 1 battery board connector	PS873

# Power Supply Options Board List



PS900 Model	PS900 Summary	Legacy Supply
900-2RS <b>VON DUPRIN.</b>	2 Zone control with sequencing For use with PS914 ONLY; Designed for Control of High Inrush EL's	871-2 card
900-2Q <b>VON DUPRIN.</b>	2 Zone control for QEL Can be used on all PS900 Models	2Q card
900-4R <b>SCHLAGE</b>	4 Relay control, no timing or logic Can be used on all PS900 Models	DCM RCM
900-4RL <b>SCHLAGE</b>	4 Relay control with logic - Field programmable Can be used on all PS900 Models	4TD SI AO DCM + TDM RCM + TDM <i>*DE, AL, AC function discontinued</i>
900-8F <b>SCHLAGE</b>	8 fused 4A max outputs Can be used on all PS900 Models	NEW
900-8P <b>SCHLAGE</b>	8 PTC 1.8A output (class2) Can be used on all PS900 Models	NEW
900-BBK <b>SCHLAGE</b>	Battery Backup w/ batteries Can be used on all PS900 Models	873-BB
900-FA <b>SCHLAGE</b>	Fire Alarm Can be used on all PS900 Models	FA EIR

# PS902 Overview



- **Summary:**
  - Schlage Electronics 2A Power Supply.
  - **Input: 120V/240VAC, 50/60HZ universal input**
  - Output: 12VDC or 24VDC selectable, 2A
  - **UL294**
- **Compatible With:**
  - Option Boards 900-2Q, 900-4R, 900-4RL, 900-8F, 900-8P, (accepts ONE of these)
  - 900-BB, 900-FA (accepts both of these)
    - ***Not intended for EL, Chexit, or Inpact application.***
- **Key Features:**
  - **Class 2 output, with or without battery board.**
  - **AC Fuse Monitor Relay**
  - No output DC fuse. Electronic current limiting foldback circuit used.
    - ***Triggered when output current exceeds maximum rating by approximately 1A.***
  - **Enclosure with optional keylock**



**PS902 Shown with  
Optional 900-2Q**



# PS-904 Overview



- **Summary:**
  - Schlage Electronics 4A Power Supply.
  - **Input: 120V/240VAC, 50/60HZ universal input**
  - Output: 12VDC or 24VDC selectable, 4A
  - **UL294**
- **Compatible With:**
  - Option Boards 900-2Q, 900-4R, 900-4RL, 900-8F, 900-8P, (accepts **TWO** of these)
  - 900-BB
    - ***Not intended for EL, Chexit, or Inpact application.***
  - **Does NOT accept 900-FA without an option board**
- **Key Features:**
  - Class 2 output, with and without battery board
  - **AC Fuse Monitor Relay**
  - No output DC fuse. Electronic current limiting foldback circuit used.
    - ***Triggered when output current exceeds maximum rating by approximately 1A.***
  - **Enclosure with optional keylock**



**PS904 Shown with  
Optional 900-8F FA, 900-  
4R FA and 900BBK  
(Battery Back Up Kit)**

# PS-906 Overview



- **Summary:**
  - Schlage Electronics 6A Power Supply.
  - **Input: 120V/240VAC, 50/60HZ universal input**
  - Output: 12VDC or 24VDC selectable, 6A
  - **UL294**
- **Compatible With:**
  - Option Boards 900-2Q, 900-4R, 900-4RL, 900-8F, 900-8P, (accepts **THREE** of these)
    - ***Not intended for EL, Chexit, or Inpact application.***
  - 900-BB (NOTE: BB can be installed UNLESS 3 option boards installed)
  - **Does NOT accept 900-FA without an option board**
- **Key Features:**
  - ***Not Class 2 output by itself. Individual outputs of 8P board make this class 2.***
  - **AC Fuse Monitor Relay**
  - No output DC fuse. Electronic current limiting foldback circuit used.
    - ***Triggered when output current exceeds maximum rating by approximately 1A.***
  - **Enclosure with optional keylock**



**PS906 Shown with  
Optional 900-8P FA (two)  
and 900-4RL**

# PS-914 Overview

**VON DUPRIN.**

- **Summary:**
  - Von Duprin 4A High Inrush Power Supply **design for Ingersoll Rand EL, Chexit, and Impact devices.**
  - **Input: 120V/240VAC, 50/60HZ universal input**
  - Output: 12VDC or 24VDC selectable, 4A
  - **UL294**
  - Works with existing potted module; new potted module NOT required
- **Compatible With:**
  - Option Boards 900-2RS, 900-2Q, 900-4R, 900-4RL, 900-8F, 900-8P, (accepts **TWO** of these)
  - 900-BB
  - **Does NOT accept 900-FA without an option board**
- **Key Features:**
  - Class 2 Output, **with and without battery board.**
  - **AC Fuse Monitor Relay**
  - No output DC fuse. Electronic current limiting foldback circuit used.
    - ***Triggered when output current exceeds maximum rating by approximately 1A.***
  - **Enclosure with keylock**



**PS914 Shown with  
Optional 900-2RS (two)**

# PS900 Distribution Points



Power supplies and option board will ship from the following locations:

	Brand	Schlage Lock @ Security CO	Von Duprin @ Indianapolis IN
PS902	Schlage	x	x
PS904	Schlage	x	
PS906	Schlage	x	
PS914	Von Duprin		x
900-2RS	Von Duprin		x
900-2Q	Von Duprin	x	x
900-4R	Schlage	x	x
900-4RL	Schlage	x	x
900-8F	Schlage	x	x
900-8P	Schlage	x	x
900-BBK	Schlage	x	x
900-FA	Schlage	x	x

**Note: Consistent Part Number and List Price**

# Top 5 Things To Know



- All Power Supplies and option boards are UL294 listed
- New Alarm Board Mounting provides greater flexibility for more configuration options
- Common connectors on option boards means no racks or special mounting hardware required.
- Same amperage output at 12 V or 24 V settings
- New Fused Output Boards provide 8 individually fuse protected outputs

# FAQ's



- Q: What do we do if a legacy PS873 is upgraded to a PS914 but it is size constrained or already plumbed?  
A: A retrofit kit has been designed to be installed in the same enclosure as the legacy PS873. This eliminates the need to rerun any existing conduit or relocate other installed devices. New retrofit kit supports the installation of 900-2RS, 900-2Q, 900-4RL, and 900-BB/BBK. 900-FA can be mounted on option board (s) as well.
- Q: Will there be a BAA option available?  
A: BAA Options will be available on power supplies and option boards that are factory configured. Available Mid April.
- Q: Can the new 900-2Q distribution board be used in the 4 and 6 amp power supplies?  
A: Yes. 900-2Q option boards are compatible will all new PS900 series power supplies for QEL applications.

# Power Supply Support Materials



- New Web Pages
- New Mini Brochure (ES-5918)
- [www.Schlage.com/support](http://www.Schlage.com/support)
  - Data Sheets (ES-5900, ES-5901, ES-5902, ES-5903)
  - Templates
  - Install Manuals
    - Includes Basic Wiring Diagrams

**The PS900 Series Accessories**

The Schlage PS900 Series features seven option boards for use in a variety of applications. All Schlage PS900 Series power supplies option boards are UL 294 certified.

**OPTIONAL DISTRIBUTION BOARDS:**

- 900-4R:** 4 relay controlled output board to power multiple devices
- 900-4RL:** 4 relay distribution board with logic is field configurable for time delay function, auto operator, security interlock
- 900-8F:** Provides 8 individually fuse-protected outputs, giving the flexibility to power multiple devices and provide another layer of protection
- 900-8P:** Provides 8 individual PTC (resettable fuse) protected outputs for use with a variety of access control devices
- 900-2Q:** 2 relay control board required to power QEL exit device

**ADDITIONAL OPTION BOARDS:**

- 900-FA:** Emergency interface relay integrates with fire alarm and is used to cut power in case of emergency
- 900-BBK:** Battery backup kit includes two 7Ah batteries and provides up to four hours of backup power when cycled every 5 minutes at full load

**PS900 Series Power Supplies from Schlage**  
Designed for Superior Flexibility, Performance and Ease of Use

Visit [schlage.com](http://schlage.com) for more information.

**SCHLAGE**

**PS900 Series Power Supplies**

System Components: Electromagnetic Locks | Power Supplies | Service & Support

**PS900 Series Power Supplies**

Products > System Components > Power Supplies > PS900 Series Power Supplies

Next Steps: Have any questions or concerns? For inquiries or concerns regarding Electronic Locks: Customer Care, Sales and Technical Support 877-671-7511

Downloads:

- PS902 Power Supply Data Sheet PDF Data Sheet
- PS904 Power Supply Data Sheet PDF Data Sheet
- PS906 Power Supply Data Sheet PDF Data Sheet
- PS900 Series Option Boards Installation Instructions
- PS900-2Q QEL Wiring and Configuration Instructions
- PS900-4RL Option Board Installation Instructions
- PS900-8B Battery Backup

**SCHLAGE**

**PS902**  
2 amp Power Supply

Features:

- 2A @ 120V AC output, fuse protected with QEL
- Class 2 fused power limited output
- Universal 120-240 VAC input
- Low voltage AC, equipped with 3 phase
- Single isolated connector for distributed loads
- Fuse primary input
- AC input and DC output monitoring circuit for ESD protection
- Case mounted AC input indicator
- NEMA 1 enclosure
- Input meter for line current review
- High voltage protective cover

**SCHLAGE**

**PS902 Power Supply**

44487023

Installation Instructions

These instructions cover the following parts:

- PS902 Power Supply - Pages 1-3
- 900-8B Battery Backup (optional) - Page 3

**CAUTION:**  
To avoid risk of electric shock, turn off AC power before making or servicing PS902 power supply.

**PS902 Power Supply Specifications:**

Input	120/240 VAC, 1.1 A, 50/60Hz, high voltage Class 1 Wiring Required
Output	2 amp DC @ 12.5V DC
Enclosure	UL 94V-0 (UL 94V-0 or UL 94V-0A, UL 94V-0B, UL 94V-0C or UL 94V-0D)
Temperature Range	0°C to 50°C (32°F to 122°F)
Fuse	1A @ 125V

**CAUTION:**  
The protection against risk of fire, electric shock with normal type and rating.

Compliance	UL 1564, UL 94V-0, RoHS, and FCC Part 15, Class B, Group 1
Connector Details	900-3D NIST INSTRUCTIONS-44487026
Connector - 1 year maximum	900-4D NIST INSTRUCTIONS-44487028
900-4F	NIST INSTRUCTIONS-44487024
900-4P	NIST INSTRUCTIONS-44487025
Fire Alarm Input Board (Optional)	900-FA NIST INSTRUCTIONS-44487029
Battery Backup Board (Optional)	900-8B NIST INSTRUCTIONS-44487024
DC Input Output	Form C Connectors, 30, 31, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

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