30-Output Configurable Smart Enclosure

The Sivoia QS Smart Enclosure simplifies wiring and organizes installations with multiple Sivoia QS window treatments and other system devices and interfaces.

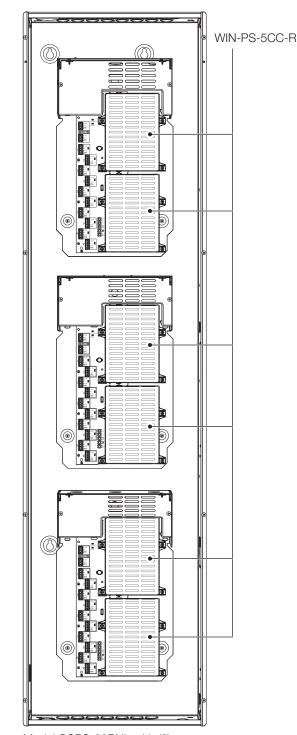
The Sivoia QS Smart Enclosure is designed to be hardwired into a standard 120 - 240 V~ circuit. Each panel contains three sub-plates, each providing termination points for 120-240 V~ and NEC Class 2/PELV wiring. Each sub-plate is plug-in ready for two 5-output power modules (sold separately). When fully populated with six power modules, each panel contains thirty NEC® Class 2/PELV outputs that provide power and communication to connected devices.

Features

- Plug-in ready for up to six 5-output power supply modules, model WIN-PS-5CC-R (sold separately)
- Thirty NEC® Class 2/PELV outputs (when populated with six 5-output power supply modules, model WIN-PS-5CC-R), capable of operating Lutron Sivoia QS shades, drapery drive units, keypads & accessories
- No replaceable fuses required for overload / miswire protection
- Simple wiring topology to connect QS communication between shades and other system components
- Built in Smart diagnostics verify system communication and reduce installation time
- Easy system testing with manual override buttons for shades and lighting

Models

- QSPS-30PNL-NPM:
 59.5 in (1511 mm) high enclosure with 3 sub-plates;
 NPM = No Power Modules
 (unit ships with empty module placeholders mounted)
- WIN-PS-5CC-R: (sold separately)
 (1) Plug-in ready Power module with 5 outputs which are compliant with U.S. Department of Energy Efficiency Level VI
- WIN-PS-5CC-BLK12: (sold separately)
 Pack of (12) WIN-PS-5CC-R



Model QSPS-30PNL with (6) power modules (WIN-PS-5CC-R) installed

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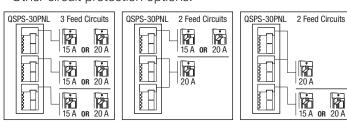
Specifications

Power

- Output (with WIN-PS-5CC-R installed):
 - Each output: 35 V== 143 mA 5 W
 - Each output is capable of powering one Sivoia QS shade or drapery drive unit, OR up to 8 QS PDUs; see Wiring Rules

Input Wiring

- 14 AWG-10 AWG (2.5 mm²-4.0 mm²) single wire, solid or stranded
- Torque terminal screws to: 5 in-lbs (0.5 N•m)
- Strip length: 5/16 in (8 mm)
- A 15 A circuit breaker is required for each 10-output subplate* (limiting factor is inrush current; in some countries, a 16 A circuit breaker will be suitable)
 - *Other circuit protection options:



Output Terminal Wiring

- 22 AWG 12 AWG (0.5 mm² 4.0 mm²) single wire, solid or stranded (wire gauge affects allowable length of run; see <u>Wiring Rules</u>)
- Torque terminal screws to: 5 in-lbs (0.5 N•m)
- Strip length: 1/4 in (6 mm)
- Thirty (30) output terminal blocks for shade power/ communication (4-conductor)
- Six (6) link terminal blocks for communication passthrough (3-conductor)

Regulatory Approvals

- cULus Listed
- Contains U.S. Department of Energy Level VI compliant power supplies
- RoHS Compliant
- FCC Part 15 Subpart B Class B
- ICES 003 Class B
- NOM Certification Pending

Environment

- Ambient Temperature Operating Range: 32 °F to 104 °F (0 °C to 40 °C)
- Relative humidity: 0% to 90% non-condensing
- For indoor use only
- Thermal dissipation (with WIN-PS-5CC-R module installed)
 - with 1 window treatment and keypad per output: 60 BTU/hr
 - with load of 5 W per output: 156 BTU/hr

Performance

- +/- 6 kV surge protection (ANSI/IEEE C62.41 1991)
- +/- 16 kV ESD protection (EIC 61000-4-2 air discharge)
- Self-recoverable short circuit/miswire protection on power output terminals per output
- Self-recoverable overload/over temperature protection per output

Warranty

Covered by Lutron Shading Solutions standard warranty; see: lutron.com/TechnicalDocumentLibrary/Window Systems Warranty,pdf

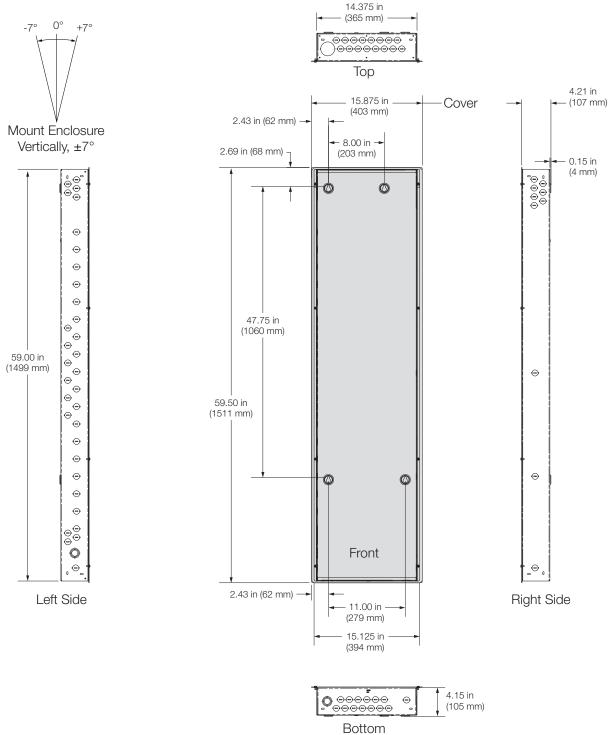
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Mounting

- Weight: 55 lb (24.9 kg)
- May be surface mounted or recess mounted at a location within allowable distance to powered devices, limited by wire gauge used; see the section titled: Wiring Rules

Dimensions



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Wiring Rules

Link Terminals:



- All wiring is NEC® Class 2/PELV. Follow all applicable local and national codes for proper circuit separation and protection.
- COM: 12-18 AWG (4.0-1.0 mm²)
- MUX and MUX: 22 AWG (0.5 mm²) twisted/shielded pair
- Total length of wiring on communication link must not exceed 2000 ft (610 m)
- Maximum of 100 devices in each Sivoia QS system (panel outputs and link pass-through combined; each power module equipped subplate counts as 1 of the 100 devices)

NOTE: The 3-pin link terminals must be used when interconnecting multiple Smart Enclosures. Smart Enclosures cannot be interconnected using the 4-pin output terminals.



Output Terminals:

- All wiring is NEC® Class 2/PELV. Follow all applicable local and national codes for proper circuit separation and protection.
- V+ and COM: 12-18 AWG (4.0-1.0 mm²)
- MUX and MUX: 22 AWG (0.5 mm²) twisted/shielded pair
- Power (V+) terminals must NEVER be connected between outputs

Maximum devices powered per output			Maximum total length of wiring based on wire gauge		
Shades	+	Devices	12 AWG (4.0 mm²)	16 AWG (1.5 mm²)	18 AWG (1.0 mm²)
None	+	Up to 8 PDUs*	2000 ft (610 m)	1000 ft (305 m)	600 ft (183 m)
Any 1 shade/drapery drive unit	+	Up to 1 PDU*	500 ft (152 m)**	200 ft (61 m)	125 ft (38 m)
2 Palladiom, ≤ 30 sq ft (2.75 sq m) each	+	Up to 1 PDU*	N/A**	75 ft (23 m)	50 ft (15 m)
3 Palladiom, ≤ 20 sq ft (1.8 sq m) each	+	Up to 1 PDU*	N/A**	75 ft (23 m)	50 ft (15 m)
2 Sivoia QS roller 64, ≤ 30 sq ft (2.75 sq m) each	+	Up to 1 PDU*	200 ft (61 m)	75 ft (23 m)	50 ft (15 m)
3 Sivoia QS roller 64, ≤ 20 sq ft (1.8 sq m) each	+	Up to 1 PDU*	200 ft (61 m)	75 ft (23 m)	50 ft (15 m)
2 Sivoia QS roller 100, ≤ 50 sq ft (4.6 sq m) each	+	Up to 1 PDU*	200 ft (61 m)	75 ft (23 m)	50 ft (15 m)

^{*}PDU = Power Draw Unit. For more information, refer to the QS Link Power Draw Unit Specification Submittal (P/N 369405).

Options available from Lutron with power and communication conductors in one cable:

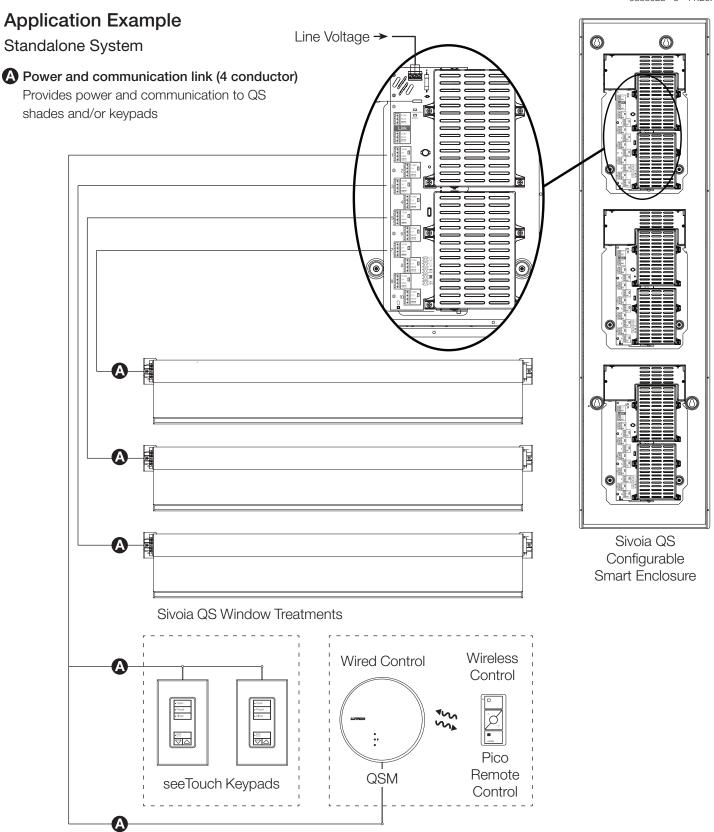
Cougo	Lutron Model Number		
Gauge	Standard	For Plenum Installation	
12 AWG (4.0 mm²)	QSH-CBL-L-500	QSH-CBLP-L-500	
16 AWG (1.5 mm²)	QSH-CBL-M-500	QSH-CBLP-M-500	
18 AWG (1.0 mm²)	GRX-CBL-346S-500		

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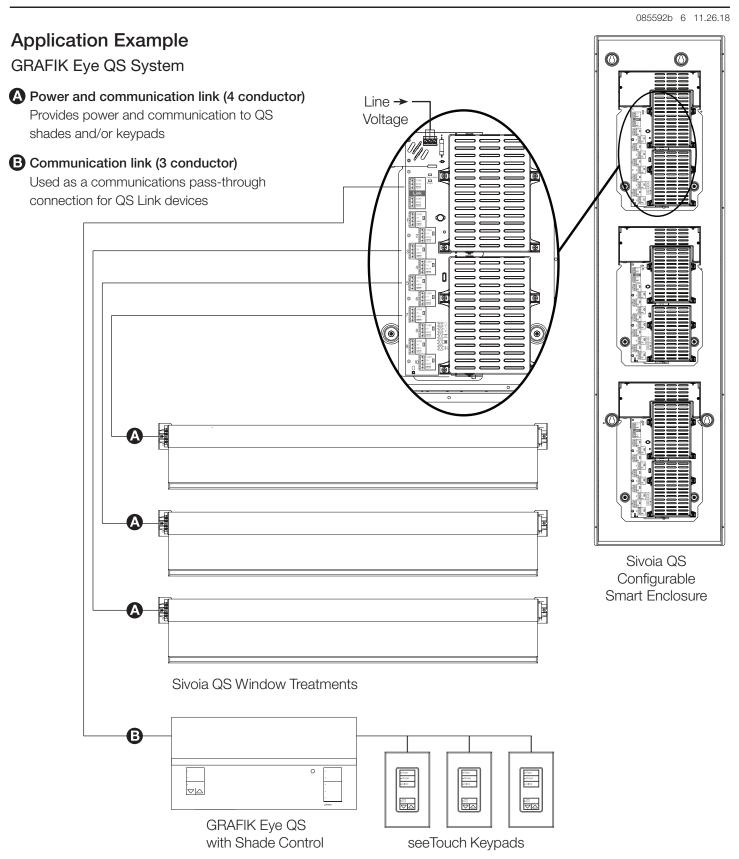
^{**}The connector supplied with Palladiom shades is not sized to accept 12 AWG wire.





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Application Example

Linking Multiple Smart Enclosures in Large Systems (Quantum, HomeWorks QS)

A Power and communication link (4 conductor)

Provides power and communication to QS shades and/or keypads

Communication link
 (3 conductor)

Used as a communications pass-through connection for QS Link devices

NOTE: The 3-pin link terminals must be used when interconnecting multiple Smart Enclosures.
Smart Enclosures cannot be interconnected using the 4-pin output terminals.

↓ QS Link (communication) ← Line Voltage Power to Window Treatments and Controls Sivoia QS Configurable Smart Enclosure ← Line Voltage Power to Window Treatments and Controls Sivoia QS Configurable Smart Enclosure ▼ To System Processor

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