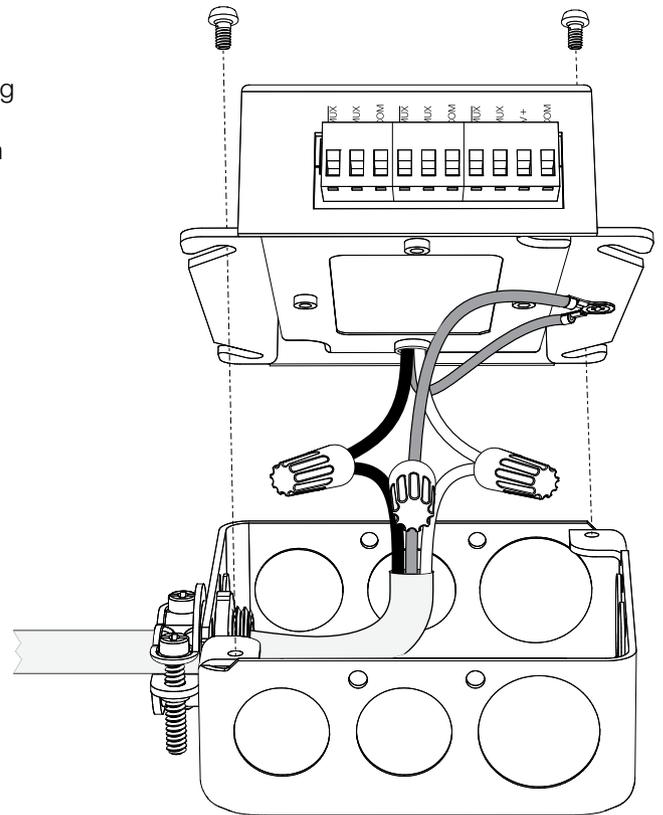
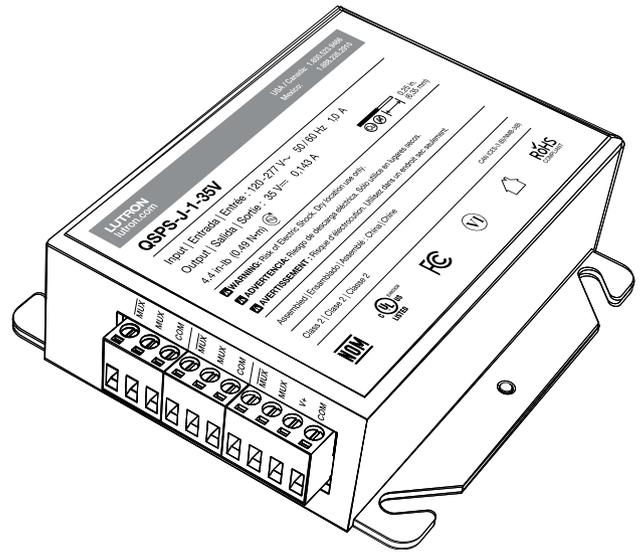


QS Junction Box Power Supply

The QS Junction Box power supply (QSPS-J-1-35V) is a 35 V_{DC} power supply that is used with Lutron QS lighting and shading devices. It is designed to be hard-wired into a standard 120-277 V_{AC} circuit, and mount on a 4 in x 4 in junction box, in place of the junction box cover as shown.

Features

- NEC® Class 2/PELV power supply capable of powering Lutron Sivoia, Stanza, and Contract shades, drapery drives, keypads & accessories
- Compliant with U.S. Department of Energy Efficiency Level VI regulations for External Power Supplies
- Simple wiring scheme uses 4-conductor, low voltage link to provide power and communication pass-through for both QS electronic drive units (EDUs) and QS keypads
- Flexible wiring topology for easy installation and integration
- Removable terminal blocks for easy access to low voltage wiring
- Form factor allows the power supply to be installed discretely in utility spaces



Job Name:	Model Numbers:
Job Number:	

Specifications

Power

- Input: 120-277 V~ 50/60 Hz 1.0 A
- Output: 35 V=== 0.143 A
- Capable of powering any one Lutron QS window treatment drive OR up to 8 QS PDU's (see QS Link Wiring Rules)

Input Wiring

- Three (3) 8 in, 18 AWG flying leads
- Up to 20 power supplies may be wired into a standard 20 A circuit
- No replaceable fuses
- Must be installed by a qualified electrician

Output Terminal Wiring

- 22 AWG – 12 AWG (0,5 mm² – 4,0 mm²) single wire, solid or stranded
- Torque: 4.4 in-lbs (0,5 N•m)
- Strip length: 0.25 in (6 mm)
- 4-position terminal block accepts 4-conductor shade power/communication cable
- 3-position terminal block accepts 3-conductor inbound communication link
- 3-position terminal block accepts 3-conductor outbound communication link

Regulatory Approvals

- U.S. Department of Energy Level VI Compliant
- NRCan Compliant
- cULus Listed
- FCC Compliant
- NOM Certified
- RoHS Compliant

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; not approved for plenum installation
- Thermal dissipation: 4.5 BTU/hr

Performance

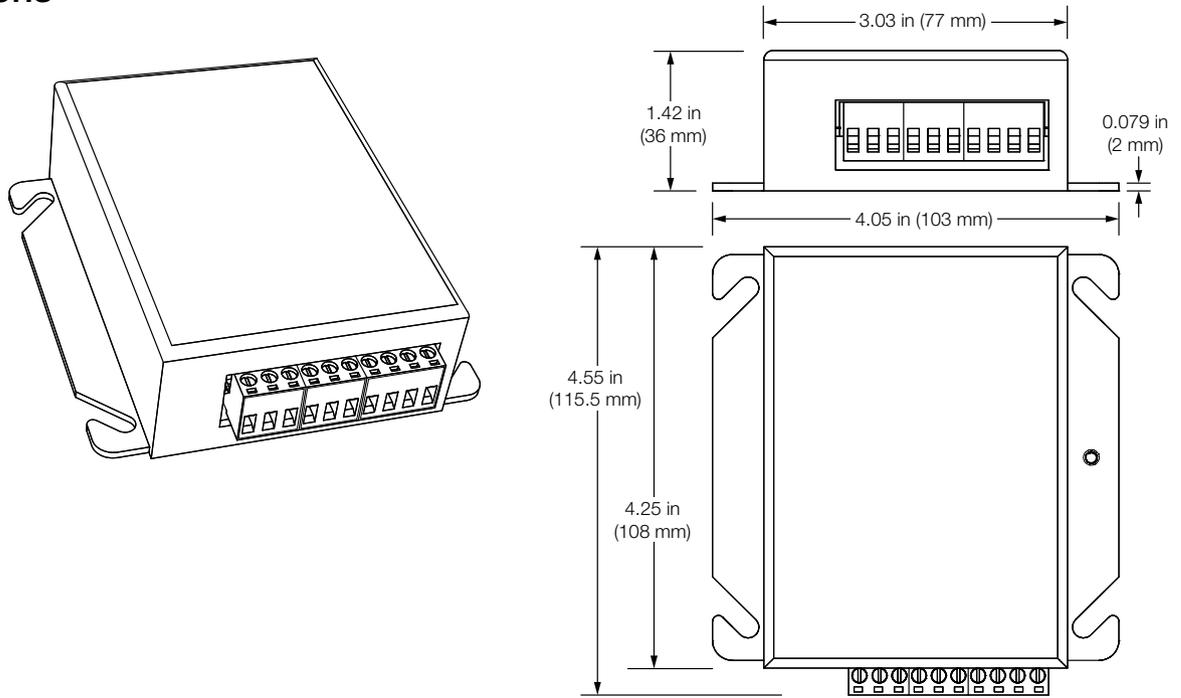
- +/- 6 kV surge protection (ANSI/IEEE C62.41 - 1991)
- +/- 16 kV ESD protection (IEC 61000-4-2 AIR DISCHARGE)
- Self-recoverable short circuit/miswire protection on power output terminals
- Self-recoverable overload/over temperature protection

Warranty

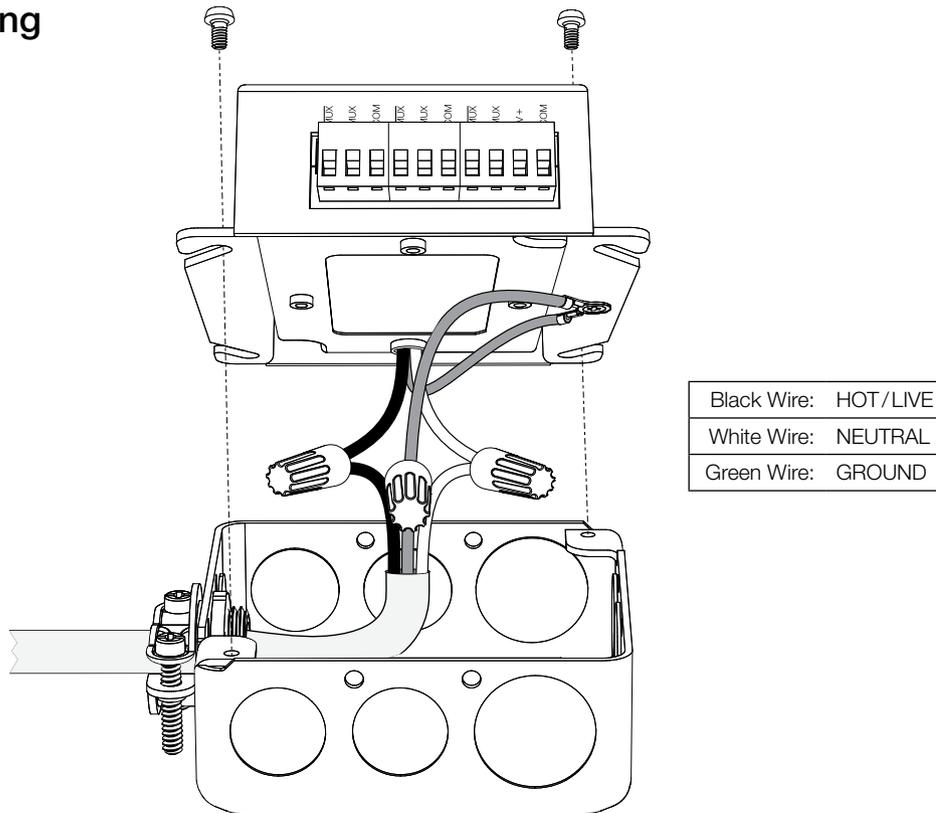
- Covered by Lutron Shading Solutions standard warranty; see: lutron.com/TechnicalDocumentLibrary/Window_Systems_Warranty.pdf

Job Name:	Model Numbers:
Job Number:	

Dimensions



Input Wiring



Job Name:	Model Numbers:
Job Number:	

Output Wiring Overview:

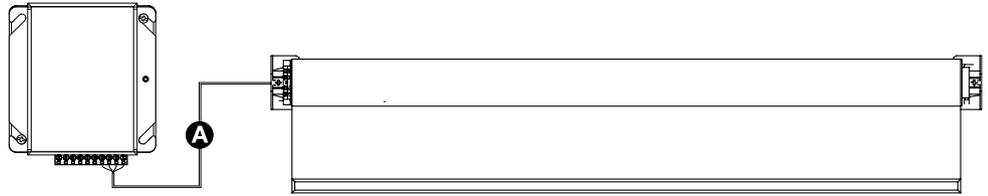
A Power and communication link (4 conductor)

Provides power and communication to QS shades and/or keypads

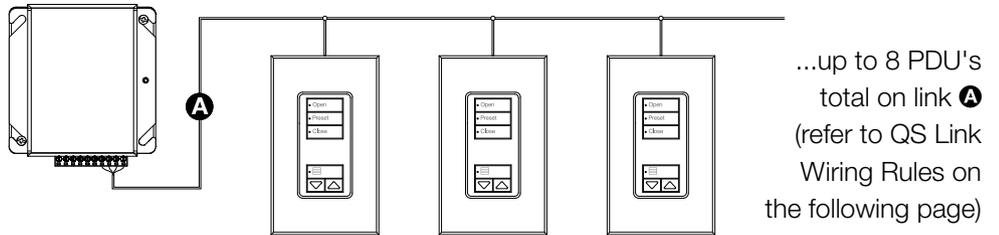
B Communication link (3 conductor)

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

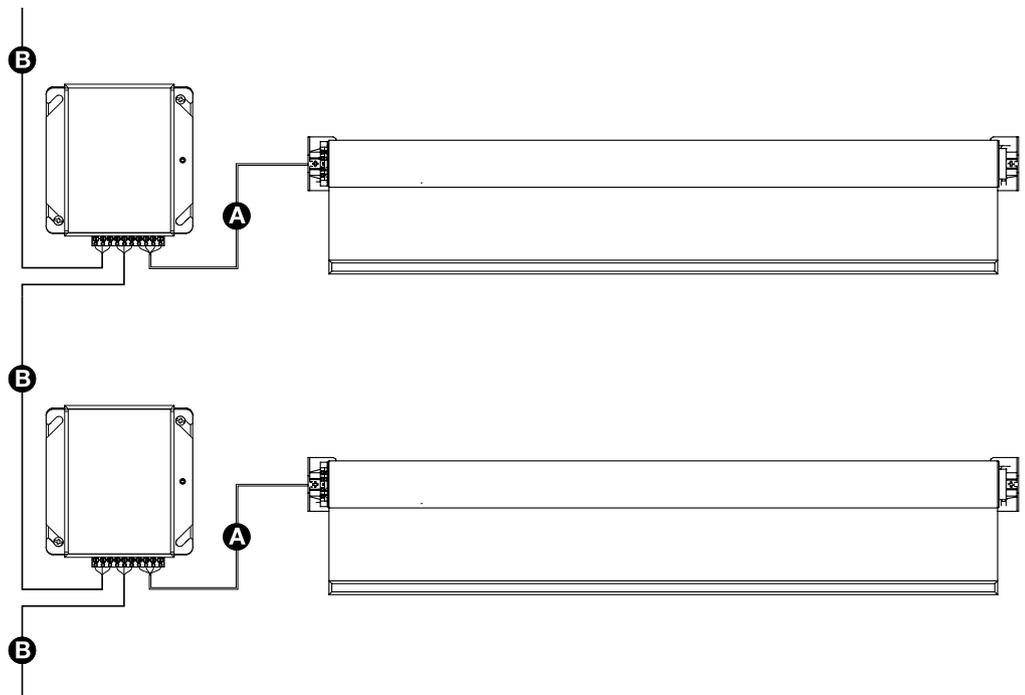
Example: Powering one window treatment drive unit (maximum 1 window treatment drive unit per power supply)



Example: Powering keypads



Example: 2 power supplies / 2 window treatment drive units, with communication link



Job Name:	Model Numbers:
Job Number:	

QS Wiring Rules

The following rules must be observed for proper operation.

- QS wiring is NEC® Class 2/PELV. Follow all applicable local and national codes for proper circuit separation and protection.
- Power (V+ and COM): 12 - 18 AWG (4,0-1,0 mm²)
- Communication (MUX and MUX̄): 22 AWG (0,5 mm²) twisted/shielded pair
- V+ must NEVER be connected between power supplies
- Total length of QS link wiring must not exceed 2000 ft (610 m)

Maximum devices powered from one QSPS-J-1-35V		Maximum total length of wiring between power supply and device(s) based on wire gauge			
Shades	+	Controls	12 AWG (4,0 mm²)	16 AWG (1,5 mm²)	18 AWG (1,0 mm²)
1 Sivoia QS shade/drapery drive unit	+	Up to 1 Power Draw Unit*	250 ft (75 m)	100 ft (30 m)	50 ft (15 m)
None	+	Up to 8 Power Draw Units*	2000 ft (610 m)	2000 ft (610 m)	1500 ft (450 m)

*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:

Gauge	Lutron Model Number
12 AWG (4,0 mm²)	QSH-CBL-L-500
16 AWG (1,5 mm²)	QSH-CBL-M-500
18 AWG (1.0 mm²)	GRX-CBL-346S-500

It is the responsibility of the installer to ensure plenum installations are compliant with all applicable local and national codes.

Job Name:	Model Numbers:
Job Number:	