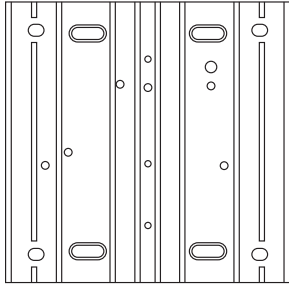


STPSRW101 (201) / STPERW101 (201)

Country of Origin: Made in China

OVERVIEW



The Power Station Booster is a single load dimmer station able to handle a larger than normal load. The station installs in a 2-gang wall-box or in Wattstopper's LCAP series enclosures. Faceplate covers are available in Almond, Black, Brown, Ivory and White for 2-gang wall-box enclosures.



36V stations have a symbol on the Serial Number sticker. Any station, not displaying this symbol, ⁽³⁶⁾, should not be connected to a 36Volt Station Bus.

SPECIFICATIONS

Description	Specification
Dimensions, HWD	4.34" x 4.25" x 2.5" (110.2mm x 107.9mm x 63.5mm)
Dimensions, Faceplate	4.75" square (120.6mm square)
Weight	14.4oz. (407g)
Voltage	See <i>Load Specifications</i> table
Load Types	See <i>Load Specifications</i> table
Number of Loads	1
Status Indicator	Microprocessor Status
Station Wiring Configuration	Daisy-chain / Star / Branch
*Station Bus Connection	24V / 36V Station Bus
Station Bus Wiring	2 Conductor, 16AWG / 1.31mm ² , twisted, non-shielded, <30pF per foot. Separate a minimum of 12" / 30.5cm from other parallel communication and/or high-voltage runs
Station Equivalent InFusion	0.35W on IC-24 / 0.55W on IC-36
Station Equivalent QLink	1 Station
Cooling	Convection
Ambient Operating Temperature	32 - 95°F (0 - 35°C)
Ambient Operating Humidity	5 - 95% non-condensing
UL and CUL Listed	Yes

SYSTEM REQUIREMENTS

All four station types are compatible with InFusion Systems. For new projects it is recommended that firmware and software be kept to the most current release.

LOAD SPECIFICATIONS

Model	Standard Dimmer		Electronic Dimmer	
	STPSRW101	STPSRW201	STPERW101	STPERW201
Load Types	Forward Phase Only - Minimum Load 15W		Reverse Phase Only - Minimum Load 5W	
	Incandescent Magnetic low-voltage* LED	Incandescent Magnetic low-voltage* LED	Incandescent Electronic lighting* LED	Incandescent Electronic lighting* LED
Voltage/Frequency	120VAC, 50/60Hz	220-277VAC, 50/60Hz	120VAC, 50/60Hz	220-277VAC, 50/60Hz
Maximum Standard Load	16A, 1920W@120V	16A, 3520W@220V 16A, 4432W@277V	8A, 960W@120V	4.5A, 990W@220V 3.5A, 90W@277V
Maximum *MLV Load	1000VA @ 120V	2000V A@2 77V	NA	NA
Maximum LED Load (see <i>LED Dimming</i>)	3.2AMP, 384W@120V	3.2A, 704W@220V 3.2A, 886.4W@277V	4.8A, 576W@120V	2.7A, 594W@220V 2.1A, 582W@277V

INSTALLATION

Installation of these products should be performed or supervised by a *Certified Installer*. Turn the circuit breaker off and make sure no voltage is present before installing the Power Station Dimmer. Damage caused by failure to disconnect power may void warranty and is a risk to the installer. Connect control wires for Station Bus stand-alone control or the ScenePoint dimmer station scenario. Connect the wires as shown in the diagram (Black to LINE, White to NEUTRAL, Red to LOAD, Green to structure's safety GROUND). Before turning the circuit breaker on, check to see that all connections are correct (In particular, check to see that the correct wires have been connected to "Line In" and "Load Out").

The booster station may be controlled using one of the two installation configurations below. **NOTE:** Never connect using both methods in the same installation.

- As a stand alone dimmer:** The booster is connected to and controlled through the Station Bus, acting as a stand alone, high power, single station dimmer. -OR-
- As a power booster for a ScenePoint Dimmer Station, Module Load, or LMRC-22x:** The dimmed output from a dimmer station or dimmer module is connected to the booster and acts as a control line. A separate line feed is attached to the booster and the load is connected to the output. In short, the dimmer station or dimmer module controls the dim level, while the booster handles the power. **NOTE:** Only connect one Power Station Booster to a dimmed load, using this method.

⚠ CAUTION ⚠ To reduce the risk of overheating and possible damage to other equipment, do not install to control a receptacle. Any motor or appliance connected to a Power Station Booster requiring "RELAY MODE" must be programmed to relay mode through software first. The Power Station is shipped in "DIMMING MODE". To change the default mode to RELAY change the Power Profile to Relay in the Software. The Relay Mode change will not take place until the Power Station is on line and the system is programmed.

With this station's dimensions most standard back boxes that have the receiving threads for the station mounting screw inside the box will be adequate. Most back boxes where the receiving threads are outside the box will be too small. Test back boxes for proper fit before installing.

BACK BOX / MUD RING DIMENSIONS

With this station's dimensions most standard back boxes that have the receiving threads for the station mounting screw inside the box will be adequate. Most back boxes where the receiving threads are outside the box will be too small. Test back boxes for proper fit before installing. If mud rings are specified on a job it is important to test the mud rings for proper fit. Two gang mud rings, in particular, run substantially smaller than back boxes and some brands are not large enough for the station. *The only solution is to test the fit first.*

Back Box	Minimum Back Box Dimension
2-Gang Back Box	2.80"h x 3.60"w x 2.5"d

DEFAULT MODE

The Power Station has a default mode that operates without programming or being connected to the InFusion System. If the Power Station has been programmed but communication with the controller is lost the station will revert to default operation. The button on the front of the station acts as follows (see next page):

DEFAULT BUTTON OPERATION

Action	Load Operation
Single Press	The load toggles between off and the learned level. The turn on ramp time is 1.5 seconds and the turn off fade time is 5 seconds.
Double Press	The load ramps to 100% in 1.5 seconds. The second press must be within 1 second of the first press.
Press and Hold	After a one second delay the load will ramp in the opposite direction from the last press and hold. If the load reaches 0 or 100% it will reverse direction. When the button is released the current load level will be saved as the new learned level for that button. The cycle time is 5 seconds from 0-100%.
Relay Mode	The load turns on with the first press and release and OFF with the second press and release.

SETUP IN DESIGN CENTER

First select the room, then click on **Vantage Objects** in the **Object Explorer** and expand **Stations, WireLink**. From the list of stations double click on the **Power Station** to place it in the room. In the Object Editor name the station, select the correct model and make sure it is on the correct Station Bus port.

CONFIGURING

If using the configuration install method number “2” above, the station should not be configured. For method “1” above, the serial number may be manually typed in the project file. Traditional configuration: When the Power Station is first connected to the Station Bus, the diagnostic LED will blink twice followed by a pause. This means the Power Station is connected correctly but is not configured. It is configured like any other station. From Design Center, click on the Configure Stations button on the toolbar. To finish, press the configure button on the front of the station. Once configured the diagnostic LED will blink evenly.

DIAGNOSTIC INFORMATION

The Diagnostic LED blinks 1 time evenly or 2, 3, 4, or 5 blinks followed by a pause.

One Even Blink: The Power Station is operating correctly and is configured.

Two Blinks: The Power Station is operating correctly but is not configured.

Three Blinks: The Power Station is not communicating with the Main Controller. Check the Station Bus connection.

Four Blinks: Factory problem. Please contact the factory.

Five Blinks: The Power Station is waiting to be configured.

PROPER TORQUE and WIRE

Connector	Torque	Wire Range
LINE/LOAD WIRING	20 INCH POUNDS	14-10 AWG (Must match breaker wire gauge)

RESET

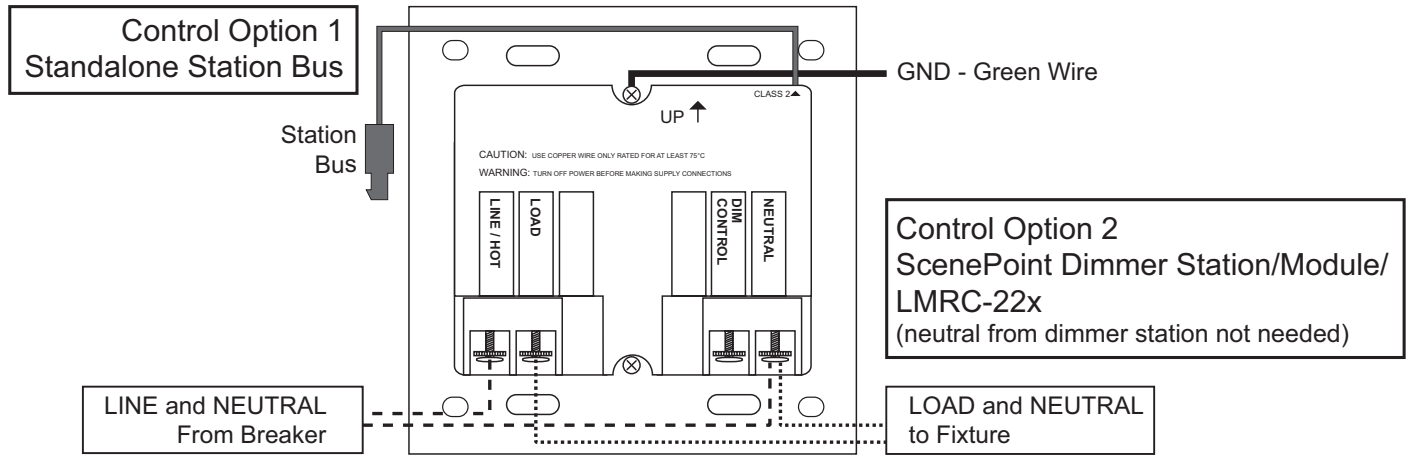
The power booster station operates as a standalone or as a high power load on the system. To reset, turn OFF power to LINE. With the power OFF, hold in the Configure/Toggle button on the front while power is restored to LINE. Continue holding the button in for about two (2) seconds to make sure the station reset happens.

NOTE: If the Station Load was changed to RELAY this Process will change it back to DIM. Make sure it is back on line with the Main Controller before testing button or load operation.

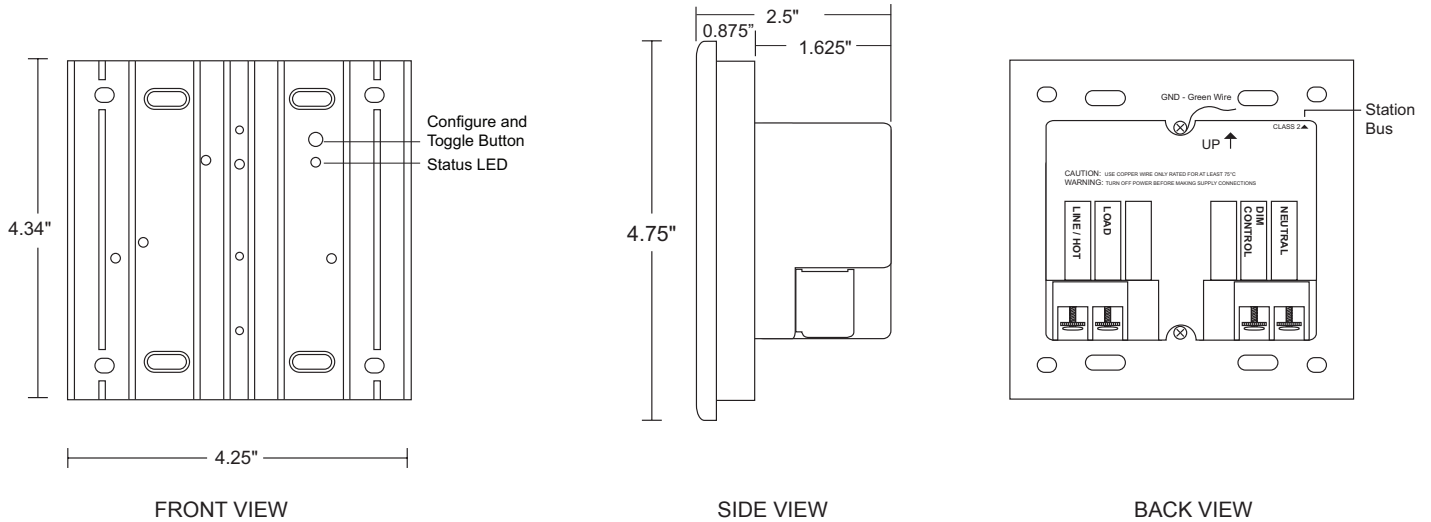
LED DIMMING

- Legrand is leading the way in LED lighting control through innovations of new hardware and software products; however, industry standards are still undefined for dimming LED lamps and fixtures. Dimming performance of LED lighting cannot be guaranteed, even when applying the correct dimming technology specified by the LED manufacturer. While Legrand may be consulted when performance issues are present, Legrand will not be liable for on-site performance issues.
- There are many factors that may contribute to unsatisfactory results within a specific installation, including, but not limited to:
 - Line noise originating from electrical equipment within the premises
 - Line noise from the source (particularly with local generators or inverters)
 - Interference between dimmed LED products
 - Wiring conditions (i.e. shared neutrals, loose neutrals, incorrectly bonded neutral, or grounding issues)
 - LED product variances, including:
 - Unintended batch-related variances
 - Product revisions

WIRING



MULTI-VIEW LINE DRAWING



WARRANTY INFORMATION

Wattstopper warrants its products to be free of defects in materials and workmanship for a period of five (5) years. There are no obligations or liabilities on the part of Wattstopper for consequential damages arising out of, or in connection with, the use or performance of this product or other indirect damages with respect to loss of property, revenue or profit, or cost of removal, installation or reinstallation.

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Wattstopper garantit que ses produits sont exempts de défauts de matériaux et de fabrication pour une période de cinq (5) ans. Wattstopper ne peut être tenu responsable de tout dommage consécutif causé par ou lié à l'utilisation ou à la performance de ce produit ou tout autre dommage indirect lié à la perte de propriété, de revenus, ou de profits, ou aux coûts d'enlèvement, d'installation ou de réinstallation.

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