Splitvolt™ Splitter Switch™

QuickStart User Guide

Applies only to Splitter Switch Models: SPS C1-011, SPS C2-022, SPS C2-032



Please note that this User Guide applies only to the model numbers listed above.

Thank you for choosing the Splitvolt™ Splitter Switch™! Charging your electric vehicle (EV) just got easier!

The Splitter Switch allows you to share your existing 240V dryer circuit safely and automatically with your dryer and EV charger to get Level 2, fast home charging, but avoiding the high cost and complexity of having an electrician install a new, dedicated 240V charging circuit.

The Splitter Switch switches full power between your EV charger and clothes dryer—automatically provides power for EV charging any time the dryer is not running.

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Just plug it in, and Splitvolt monitors, displays, and switches full 24-amp power on-demand between attached devices, providing the fastest possible safe charging on a standard 30-amp circuit, at a fraction of the cost of installing a new, dedicated circuit in your home.

Please read this manual before use.

Contact information

Splitvolt, Inc. www.splitvolt.com
Santa Clara, California www.splitvolt.com/help

Splitvolt Splitter Switch

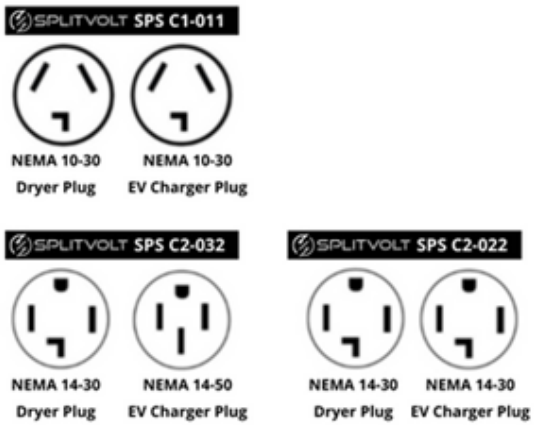
QuickStart User Guide

Models covered in this guide

Model	SKU	UPC	Wall Plug Pigtail Connector (Male)	Dryer Socket Connection (L, Female)	EV Socket Connection (R, Female)
SPS C1-011	SPS-C1-011-30A	850019012026	NEMA 10-30	NEMA 10-30	NEMA 10-30
SPS C2-022	SPS-C2-022-30A	850019012033	NEMA 14-30	NEMA 14-30	NEMA 14-30
SPS C2-032	SPS-C2-032-30A	850019012019	NEMA 14-30	NEMA 14-30	NEMA 14-50*

NOTE: * When connecting a NEMA 14-50 EV charger to this device, you must restrict the charging rate on either the EV or EV charger to 24 amps.

When connecting a NEMA 14-50 EV charger to this device, you must manually restrict the charging rate on either the EV or EV charger to 24 amps in order to stay within the maximum safe charging rate and avoid tripping the safety circuit breaker.

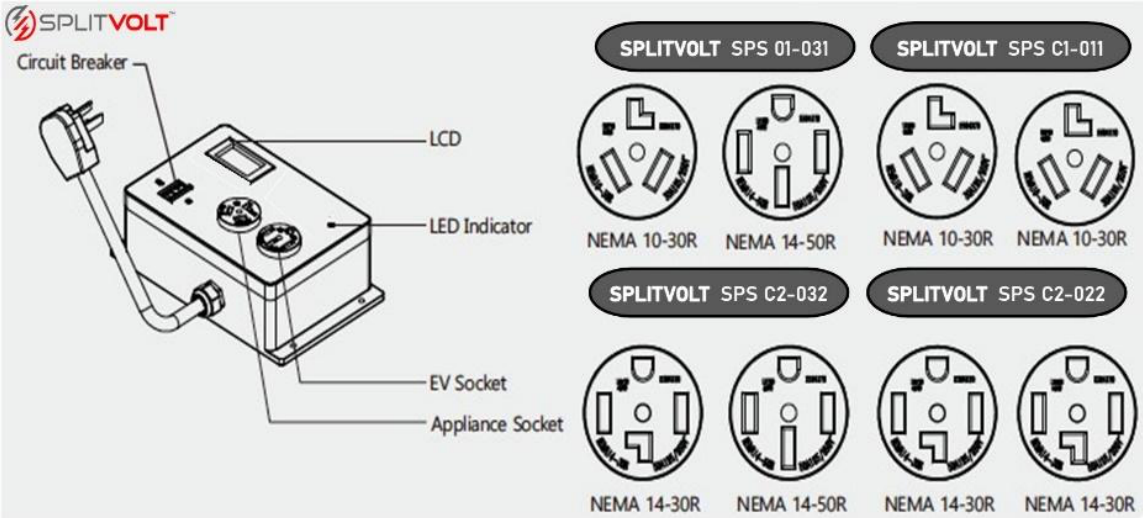


Be sure to select the right model based on your wall socket, dryer plug, and EV socket type according to the photo above. You can reference the socket-type images in the diagram to determine which type you have if you are unsure. Contact www.splitvolt.com/help with any questions.

Features and capabilities

- Automated power switching between dryer and EV power sockets
- Full-color display screen and LED status lights
- Real-time voltage, current, temperature, kWh, and status indicators
- Integrated 25-amp circuit breaker with easy reset for added protection
- Optional manual power-off switch for extra safety and convenience
- Supports standard 30-amp dryer circuits (maximum 24-amp NEC safe charging rate)
- Compatible with common 3rd-party electric vehicles and chargers
- Supports common household dryer (10-30 and 14-30) and charger (10-30, 14-30, and 14-50) plug types
- The NEMA 14-50 plug is for convenient access to common charger plugs; the maximum safe charging rate on the socket is 24 amps
- Integrated wall-mount screw holes and 3.3 ft (1 m) pigtail plug for easy installation
- Safety Agency Certification: Intertek
    - Conforms to UL STD(s) 60730-1
    - Certified to CSA STD E60730-1
    - CETLus listed Intertek 5021938

Get to know your Splitvolt Splitter Switch



- Automatic safety circuit breaker
- 3-line color LCD real-time power display
- Displays real-time watts, amps, volts, and accumulated kWh
- Optional manual power-off switch
- Resettable accumulated kWh — use a pen to press and hold the flat reset button on the right side of the screen for 5 seconds
- LED indicator: ON indicates EV charger (EVSE) has power
- Left outlet: for electrical appliance (dryer)
- Right outlet: for EV charger

Specifications

Wall Plug Pigtail Connector	NEMA 10-30 Male for SPS C1-011 NEMA 14-30 Male for SPS C2-022 NEMA 14-30 Male for SPS C2-032
Dryer Socket Connector (left socket)	NEMA 10-30 Female for SPS C1-011 NEMA 14-30 Female for SPS C2-022 NEMA 14-30 Female for SPS C2-032
EV Socket Connector (right socket)	NEMA 10-30 Female for SPS C1-011 NEMA 14-30 Female for SPS C2-022 NEMA 14-50 Female for SPS C2-032
Safety Agency Certification	ETL safety certified (cETLus 5021938) conforms to UL STD(s) 60730-1 and certified to CSA STD E60730-1
Safety Circuit Breaker	240VAC, 25A
Nominal Input	240VAC, ~60Hz
Maximum Continuous Load	240VAC, 24A
Rated Impulse Voltage	4000V
Dust and Water protection	Indoor Use Only
Case Flammability Safety Rating	UL-94 V0
LED Indicator (Lit)	EV Socket Power On
Ambient Operating Temperature	-20°C to +50°C
Unit Weight	6.7 lb (3.04 kg)
Unit Dimensions	12" x 8.5" x 4" (30.5 x 21.6 x 10.2 cm)
Package Dimensions	14" x 14" x 7" (35.5 x 33 x 17.8 cm)
Package Shipping Weight	9.2 lbs
Limited Warranty	1 Year Standard

These models are safety certified by Intertek (cETLus 5021938) conforms to UL STD(s) 60730-1 and Certified to CSA STD E60730-1

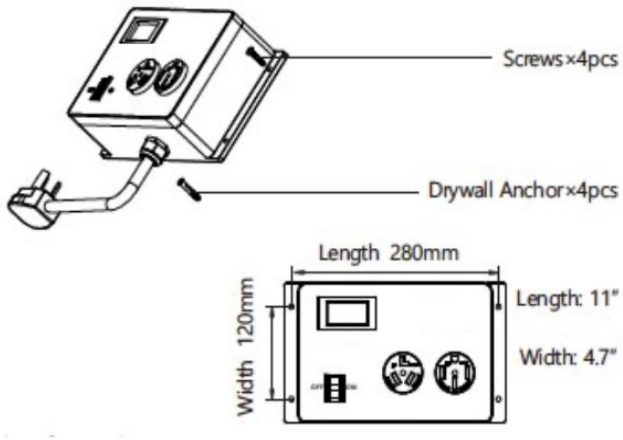
Quick start

1. Plug the SPS into the 240VAC, 30A dryer wall outlet
2. Plug the dryer into the left outlet labeled “Dryer” of the SPS
3. Plug the EV charger into the right outlet labeled “EV” of the SPS
4. If using NEMA 14-50, restrict amps to 24 amps on either your EV charger or vehicle

5. Switch the circuit breaker to the ON position

Optional wall mount

The unit may operate on a shelf or dryer, but for convenience, screw holes and mounting hardware has been provided if optional wall mounting is desired.



1. Position the SPS so that the plug reaches the wall outlet
2. Mark screw holes
3. Unplug the SPS
4. Use 5/16” or 8 mm drill bit to create drill holes
5. Push the supplied 5/16” x 1.5” (8 mm x 38 mm) anchors into the drill holes
6. Secure the SPS into anchors with supplied screws

Disclaimers

This product is intended for indoor use and must be protected from moisture and the elements to maintain safety, durability, and preserve warranty coverage.

Note that power is prioritized to your dryer, so some special low-power dryer features (such as wrinkle guard) may interfere with the operation of either your Tesla EV charger or your SPS unit, and therefore is not supported or recommended. Contact www.splitvolt.com/help with any questions or for more information.

This product is designed to operate at a maximum continuous electric vehicle charging rate of 24 amps on a standard household 30-amp circuit. According to the National Electrical Code (NEC), exceeding this rate is unsafe. It can trip the Splitter Switch internal safety circuit breaker, cutting off power, in order to reduce risk of damage or risk of fire. Contact an electrician if you ever have questions about local safety codes, or if you are unsure of the condition of your wiring.

DO NOT DISASSEMBLE. OBSERVE ALL WARNING LABELS. Do not remove warning labels.

Connect to a properly rated, protected, correctly sized power circuit which has been installed to local safety code standards.

If an electrical supply line, connectors, or other circuit elements are worn or damaged, do not use and consult a qualified electrician. The Splitvolt Splitter Switch is intended only for use with electrical circuits and wiring that is in good condition and meets local building safety codes.

Set your EV charger or EV to a maximum charge rate of 24 amps for EV chargers using NEMA 14-50 connectors.

This product is not intended for use with NEMA or other plug adapters.

Includes 1-year limited warranty (optional extended warranties are available)

Splitvolt, Inc. warrants that this product shall be free from defects in material, workmanship and assembly, under normal use, in accordance with the specifications and warnings, for a period of one year from the date of purchase. This warranty does not cover damages as a result of an accident; resulting from the use or misuse of parts not manufactured or sold by Splitvolt, Inc; or resulting from modification of the Splitvolt Splitter Switch.

These warranties extend only to the original purchaser of the product and are non-transferable. To exercise your rights under this warranty, you must provide proof of purchase in the form of an original sales receipt that shows the product name, model number, amount paid, payment method, and date of purchase. These warranties apply only to original purchasers of Splitvolt Splitter Switch for personal, family, or household use, not to commercial, institutional, or industrial purchasers.

These warranties are valid only in the United States. In no event shall Splitvolt, Inc. be liable for any direct, indirect, incidental, special, consequential, or multiple damages arising out of the use or misuse of the Splitvolt Splitter Switch devices.

Troubleshooting

The following table identifies steps for troubleshooting the operation of the device. If you are experiencing difficulty, please review the table below, check our website (www.splitvolt.com), and then contact us at www.splitvolt.com/help if you are still unable to resolve or have additional questions.

Issue	Resolution
Splitter Switch's LED and LCD are not turning on	Is power available? 1. Check that the wall socket has power 2. Check that the wall plug is plugged in fully 3. Check that the built-in breaker is in ON position
The wall socket seems to be upside down	There is no universal orientation for NEMA plugs, so yours could be upside down. Just plug it in anyway.
The pins on the cable do not match my wall socket	It is possible that the wrong model was ordered. Please contact www.splitvolt.com/help for assistance.
Not getting power from either one of the sockets	Double-check all plugs are pushed in completely. Note that the "EV" socket will not have power when the "Dryer" socket is active.
Splitter switch is not turning off the EV Socket when dryer is running	1. Turn Off/On the internal circuit breaker switch and verify whether this corrected the issue. 2. Check your house power panel for a partially tripped circuit breaker by turning On/Off the appropriate breaker, verify. 3. Confirm what type of dryer you have. If you have a gas line running into the dryer, you have a gas dryer (even if it is plugged into a NEMA 10-30 or NEMA 14-30 plug). 4. Turn off energy saver mode on your dryer. Does the splitter switch turn off the EV socket? If so, you have a rare high-efficiency dryer that downshifts to 120V during part of the cycle. Please contact www.splitvolt.com/help immediately for assistance.

Hear a buzzing sound coming from splitter switch	Turn off the breaker and turn it back on. The contacts may have become misaligned. Powering on/off will help it self-realign.
My Tesla has an alert saying "Unable to AC charge – Unplug and retry"	Simply unplug/replug-in the charger handle to the vehicle to continue charging. NOTE: Some special high-efficiency sensor dryer settings may cause multiple switching, triggering the Tesla charger power protection fault to pause charging. It is recommended that Tesla users do not use special low-power dryer settings when charging.
My internal safety breaker keeps tripping off	Verify that your EV or EV charger is only charging at 24 amps. If it is not, set it to charge at only 24 amps or less. If you are unable to change this setting, or/and the internal breaker keeps tripping, please contact us at www.splitvolt.com/help.

Need more help?

Please visit www.splitvolt.com/help for information and assistance.