

# POWERWALL



57 Bering Circle  
Angier NC 27501

This proposal is brought to you by Southern Energy Management, a Tesla Powerwall Certified Installer.

Thank you for your interest in Powerwall, a home battery that stores energy so you can use it day or night and selfpower your home. Powerwall can provide your homereliable, clean energy 24/7.

## Equipment

1x Tesla Powerwall 3	\$6,300
Tesla Backup Gateway	\$1,000
<hr/>	
<b>Equipment Cost</b>	<b>\$7,300</b>

## Installation

Installation Service	\$7,200
<hr/>	
SPAN Panel Installation	\$700
SPAN Drive Installation	\$569
<b>Total Cost</b>	<b>\$15,769</b>

## Warranty Information

Tesla Inverter	10 Years
Tesla Battery	10 Years
SPAN Panel	10 Years
SPAN Drive Unit	3 Years

## Paul Safrit

919.299.6558 | paul@southern-energy.com

Southern Energy Management  
5908 Triangle Dr, Raleigh NC 27617  
Electrical License 32733-L

# SPAN Panel Limited Warranty (USA)

Effective Date: December 1, 2023

## SPAN Panel Limited Warranty

### WHAT PRODUCTS ARE COVERED

To be entitled to the benefits of this limited warranty (this “Limited Warranty”), your SPAN Panel must: (1) be purchased from SPAN or a SPAN authorized reseller; (2) be installed by a SPAN Authorized Installer in the United States of America or Puerto Rico; and (3) have the following part numbers: 1-00200-xx or 1-00800-xx where “xx” is any alphanumeric style code used for SPAN internal reference. As used herein, the term “SPAN Authorized Installer” means a person or entity in the business of installing electrical equipment (such as solar photovoltaic or energy storage systems), has an electrical license as required by all applicable laws, rules, regulations and ordinance of local governmental authorities having jurisdiction over the original address of installation (the “Original Address”), has completed SPAN-approved training, and meets and maintains SPAN Authorized Installer program requirements.

### WHO CAN MAKE A CLAIM

Limited Warranty claims can only be made by or on the behalf of the original purchaser who purchased the SPAN Panel or other subsequent transferee of the



Contact Support

SPAN Panel at the Original Address who provides proof of ownership of such SPAN Panel.

## **WHAT IS COVERED AND FOR HOW LONG**

Subject to the terms and conditions set forth in this Limited Warranty, each SPAN Panel shall be free from defects in materials and manufacturing workmanship for a period of ten (10) years commencing on the day that the SPAN Panel is installed at the Original Address (the “Warranty Term”). The Warranty Term is not extended if your SPAN Panel is repaired or replaced under this Limited Warranty; only the remainder of the original Warranty Term will apply to the repaired or replacement SPAN Panel.

## **YOUR SOLE REMEDY**

If SPAN confirms the existence of a defect that is covered by this Limited Warranty, SPAN will, in its sole discretion, either repair your SPAN Panel (using new or refurbished parts), replace your SPAN Panel with an equivalent product (new or refurbished), or refund you the market price of the SPAN Panel at the time of the warranty claim. For warranty replacements, SPAN will cover the actual costs of labor and dispatch of service personnel to complete the replacement, up to a maximum amount of \$500.

## **Making a Warranty Claim**

If you need to file a claim under this Limited Warranty, please contact the SPAN Authorized Installer who installed your SPAN Panel. If you are unable to contact your SPAN Authorized Installer, please submit a service request by contacting SPAN Support using the contact information set forth at the end of this document.

For a Limited Warranty claim to be processed, it must include (i) proof of ownership of your SPAN Panel; (ii) a description of the alleged defect(s); and (iii) your SPAN Panel’s original installation date, part number and serial number.

Prior to returning any products, you must obtain a return authorization number from SPAN. Return shipping for the original product is the responsibility of the end user or SPAN Authorized Installer, and all returned products must be

securely wrapped and packaged as directed or instructed by SPAN to avoid shipping damage.

## **DISCLAIMER OF WARRANTIES**

THIS LIMITED WARRANTY IS THE ONLY EXPRESS WARRANTY SPAN PROVIDES FOR THE SPAN PANEL, AND THE ABOVE REMEDY IS YOUR SOLE REMEDY. SPAN LIMITS THE DURATION AND REMEDIES OF ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS OR SUFFICIENCY FOR A PARTICULAR USE OR PURPOSE, NON-INFRINGEMENT, AND ANY WARRANTY ARISING FROM A COURSE OF DEALING OR USAGE OF TRADE, TO THE DURATION OF THIS EXPRESS WARRANTY. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, SPAN SPECIFICALLY DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, ORAL OR WRITTEN, STATUTORY OR OTHERWISE. SPAN DOES NOT WARRANT THAT THE SPAN PANEL WILL OPERATE UNINTERRUPTED, BE ERROR-FREE OR THAT ALL ERRORS CAN BE CORRECTED. NO ORAL OR WRITTEN INFORMATION OR ADVICE GIVEN BY THE SPAN AUTHORIZED INSTALLER OR ANY SPAN PERSONNEL SHALL CREATE A WARRANTY OR IN ANY WAY INCREASE THE SCOPE OF THIS LIMITED WARRANTY.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

## **GENERAL EXCLUSIONS**

This Limited Warranty does not apply to any defect or loss of product functionality resulting from any of the following: (i) abuse, misuse, improper handling, negligence, rust, or corrosion; (ii) accidents or force majeure events, including without limitation lightning, flood, earthquake, fire or other events beyond the reasonable control of SPAN; (iii) installation, commissioning, or repair of your SPAN Panel or SPAN Panel components that is performed by anyone other than SPAN or a SPAN Authorized Installer; (iv) failure to service, maintain, or repair the electrical system connected to or landed in your SPAN Panel according to the laws, standards, or requirements of the authority having jurisdiction; (v) failure to install, operate, service, maintain, or repair your SPAN Panel in accordance with the SPAN Panel Owner's Manual, SPAN Panel Installation Manual, SPAN Panel Datasheet, and any other instructions, documentation, or notices provided or made available by SPAN, including through the SPAN Tech Portal (available at [techportal.span.io](https://techportal.span.io)) or on the SPAN

Panel itself (collectively, the “Documentation”); (vi) installation of your SPAN Panel other than in accordance with all applicable local electrical, fire, and building codes and regulations; (vii) any attempt to modify or modification of your SPAN Panel, whether by physical means, programming or otherwise, without the express written consent of SPAN; (viii) removal and reinstallation of your SPAN Panel at a location other than the Original Address without the express written consent of SPAN; (ix) installation of your SPAN Panel on a mobile structure or dwelling such as an RV or mobile home; (x) failure of any remote firmware update to the SPAN Panel as a result of a failure of your internet connection; (xi) causes external to your SPAN Panel including without limitation objects striking your SPAN Panel, faulty or damaged electrical wiring or connections, external electrical faults, circuit breakers or junction boxes; (xii) any damage done to your SPAN Panel by any components or parts not compatible with your SPAN Panel; (xiii) failure to contact SPAN upon discovery of a defect covered by this Limited Warranty; or (xiv) use of your SPAN Panel for commercial purposes.

Without limiting the foregoing, this Limited Warranty does not cover (a) normal wear and tear of your SPAN Panel; (b) superficial defects, dents or marks that do not impact the performance of your SPAN Panel; or (c) theft of your SPAN Panel or any of its components.

If a claim is made under this Limited Warranty and SPAN or a SPAN Authorized Installer determines that the claim is not covered by this Limited Warranty, you will be liable for and shall pay for all field charges for labor or other expenses incurred in connection with such claim.

## **EXCLUSION FOR FAILURE TO CONNECT TO THE INTERNET OR FAILURE TO COMMISSION YOUR SPAN PANEL**

In order to provide this Limited Warranty for the Warranty Term, SPAN requires the ability to remotely update the firmware of your SPAN Panel. Installation of these remote updates may briefly interrupt the operation of your SPAN Panel. By installing your SPAN Panel and connecting it to the internet, you consent to SPAN updating your SPAN Panel remotely on occasion without further notice to you. If your SPAN Panel is not connected to the internet for an extended period, or has not been commissioned with SPAN in accordance with the Documentation, including the creation of your account in the SPAN Home app, then we may not be able to provide important remote firmware updates to

ensure best functionality. SPAN may try to notify you when your SPAN Panel's internet connection is lost. However, if you have not registered your SPAN Panel or created an account as aforesaid, this may not be possible. If SPAN cannot honor this Limited Warranty for the Warranty Term because the SPAN Panel is not connected to the internet for an extended period, has not been commissioned with SPAN, or has not had a homeowner account created for it in the SPAN Home app, then we will still honor this Limited Warranty for a period of four (4) years commencing on the day that the SPAN Panel is installed to the Original Address, subject to the limitations and exclusions set out in this Limited Warranty.

## **LIMITATION OF LIABILITY**

**TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, SPAN SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, INDIRECT, SPECIAL, EXEMPLARY, OR PUNITIVE DAMAGES ARISING OUT OF OR RELATED TO THIS LIMITED WARRANTY, INCLUDING, BUT NOT LIMITED TO, LOSS OF VEHICLE VALUE, LOSS OF TIME, LOSS OF INCOME, LOSS OF USE, LOSS OF PERSONAL OR COMMERCIAL PROPERTY, REGARDLESS OF WHETHER CLAIMS FOR SUCH DAMAGES ARE BASED ON CONTRACT, TORT, WARRANTY OR ANY OTHER LEGAL THEORY, EVEN IF ADVISED OR OTHERWISE AWARE OF THE POSSIBILITY OF SUCH DAMAGES. SPAN'S LIABILITY ARISING OUT OF A CLAIM UNDER THIS LIMITED WARRANTY SHALL NOT EXCEED THE AMOUNT YOU PAID FOR YOUR SPAN PANEL (EXCLUDING LABOR AND OTHER COSTS OF INSTALLATION).**

**SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.**

## **LIMITATION OF USE**

**YOUR SPAN PANEL IS NOT INTENDED FOR USE WITH LIFE-SUPPORT SYSTEMS, OTHER MEDICAL EQUIPMENT, OR ANY OTHER USE WHERE PRODUCT FAILURE OR REMOTE SWITCHING OF ELECTRICAL CIRCUITS COULD LEAD TO INJURY TO PERSONS OR LOSS OF LIFE. SPAN DISCLAIMS ANY AND ALL LIABILITY ARISING OUT OF ANY SUCH USE OF YOUR SPAN PANEL.**

## APPLICABLE LAW

This warranty gives you specific legal rights, and you may also have other rights which vary from State to State. The terms of this Limited Warranty will apply to the extent permitted by applicable law.

## SPAN Contact Details

If you have any questions regarding this Limited Warranty or would like to submit a claim, please contact our customer support team using one of the following methods:

- SPAN Support website: **support.span.io**
- SPAN Support email: **support@span.io**
- SPAN address: ATTN: SPAN Warranty Claims, 168 Welsh St, San Francisco, CA 94107

## Additional Documents

**SPAN Limited Warranty for systems purchased June 1, 2020 - May 19, 2021**

**SPAN Limited Warranty for systems purchased May 20, 2021 - March 23, 2023**

**SPAN Limited Warranty for systems purchased March 24, 2023 - November 30, 2023**







<sup>1</sup> Savings will vary based on individual energy use.

<sup>2</sup> Results from an internal study of SPAN Panel managing backup load priorities in over 1,200 simulated outage situations.  
Individual results will vary.

<sup>3</sup> Savings will vary based on individual energy use.

+ Pecan Street Analysis, 2021

^ PG&E | Service Upgrades for Electrification Retrofits Study Final Report, May, 2022

Home	Tech Portal	 Instagram
Panel	Support	 LinkedIn
Drive	Terms of Service	 Youtube
App	Privacy Policy	 Facebook
Installers	Legal	 Twitter
Mission & Careers		 TikTok
News		

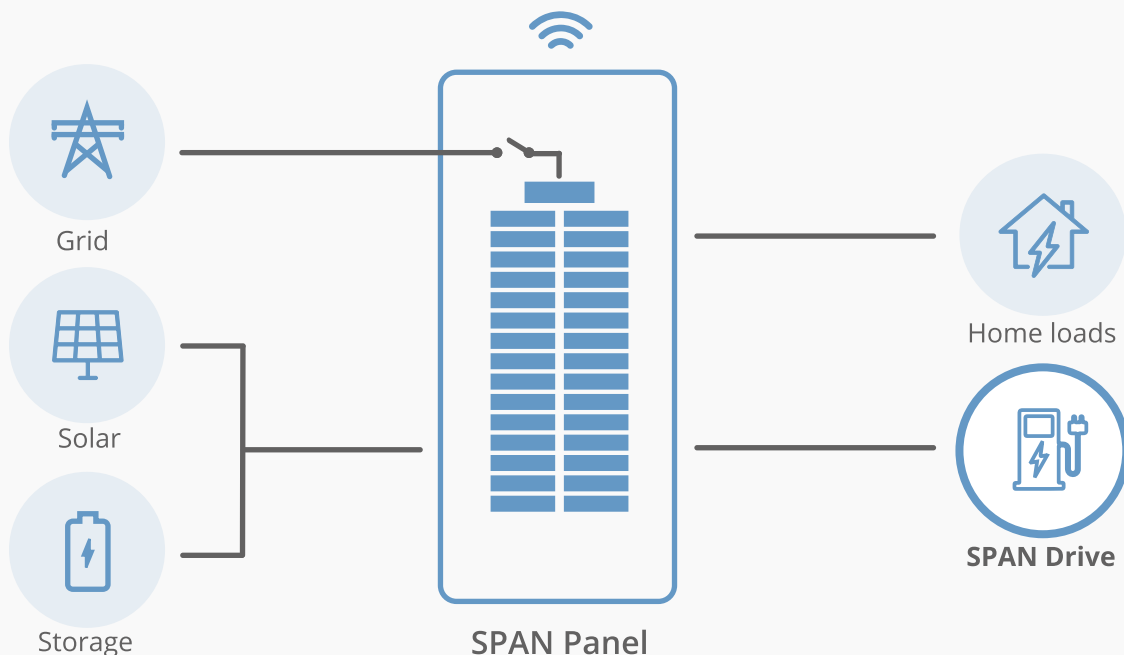


# SPAN Drive Datasheet



**SPAN Drive** is the first level 2 vehicle charger designed for real-time coordination with all home loads for max charging speeds and optimized energy usage without costly home electrical upgrades.

- **Pairs with your home** to dynamically use as much energy as is available, delivering up to 48 amps (11.5 kW) — 1.5x the rate of typical Level 2 chargers
- **Unlocks level 2 charging for any home** without needing to make any expensive electrical service upgrades
- **Looks as good as it performs** and blends effortlessly with indoor and outdoor spaces as a worthy companion to your sleek EV



## Performance Specifications

Max Power	11.52 kW (48 A)
AC Voltage (Nominal)	208 - 240 V single-phase
Grid Frequency	50 / 60 Hz
Output Current	6 - 48 A (configurable)
Max Continuous Current	48 A (60 A breaker)
AC Energy Metering	+/- 1%
Connectivity	RS485 Connection to SPAN Panel
User Interfaces	SPAN Home® App (iOS, Android), Onboard status illumination
Ground Fault Circuit Interrupter	Integrated (CCID20)
Limited Warranty	3 years

## Mechanical Specifications

Connector Type	SAE J1772
Cable Length	20 ft (6.1 m)
Dimensions	17.9 x 5.9 x 3.1 in (455 x 150 x 80 mm)
Mounting Options	Wall mounted
Weight	16 lbs (7.2 kg)

## Environmental Specifications

Operating Temperature	-22 to 122°F (-30 to 50°C) <sup>1</sup>
Operating Humidity (RH)	Up to 100% condensing
Environment	Indoor and Outdoor (NEMA 3R)
Maximum Elevation	3000 m (9842 ft) <sup>1</sup>

<sup>1</sup>Drive units installed above 2000m must be installed in ambient temperatures less than 104°F (40°C).

## Compliance Information

Certifications	UL 2594, UL 2231 ENERGY STAR® (PN 1-01400-04 and later)
Emissions	FCC Part 15 Class B
More	Meets NEC Art. 625 requirements

## Compatibility

SPAN Drive is sold exclusively as an accessory to SPAN Panel and is not supported as a standalone charger. Drive can be used with any Battery or Plug-In Hybrid Electric Vehicle (BEV/PHEV) that is compliant with SAE J1772 (including Tesla).

## Become an Authorized Installer

Learn more at [www.span.io/partners](http://www.span.io/partners)

We envision a future where every home is electric and technologies like solar, batteries, and EV charging are commonplace. Our goal is to enable this transition by dramatically simplifying the adoption of clean energy solutions, many of which exist today. This is our decade to decarbonize—join us on our mission.

## Additional Features

- Dynamic charge management for service upgrade avoidance
- Charge on schedule
- Lock Drive to prevent unwanted charging sessions
- Coming soon: Solar charging, Off-grid charge optimization, Multiple Drives per Panel and power sharing



# Powerwall 3 Technical Specifications

System Technical Specifications	Model Number	1707000-xx-y
	Nominal Grid Voltage (Input & Output)	120/240 VAC
	Grid Type	Split phase
	Frequency	60 Hz
	Overcurrent Protection Device	Configurable up to 60 A
	Solar to Battery to Grid Round Trip Efficiency	89% <sup>1,2</sup>
	Solar to Grid Efficiency	97% <sup>3</sup>
	Supported Islanding Devices	Backup Gateway 2, Backup Switch
	Connectivity	Wi-Fi (2.4 and 5 GHz), Dual-port switched Ethernet, Cellular (LTE/4G <sup>4</sup> )
	Hardware Interface	Dry contact relay, Rapid Shutdown (RSD) certified switch and 2-pin connector, RS-485 for meters
	AC Metering	Revenue Grade (+/- 0.5%)
	Protections	Integrated arc fault circuit interrupter (AFCI), Isolation Monitor Interrupter (IMI), PV Rapid Shutdown (RSD) using Tesla Mid-Circuit Interrupters
	Customer Interface	Tesla Mobile App
	Warranty	10 years

Solar Technical Specifications	Maximum Solar STC Input	20 kW
	Withstand Voltage	600 V DC
	PV DC Input Voltage Range	60 — 550 V DC
	PV DC MPPT Voltage Range	150 — 480 V DC
	MPPTs	6
	Maximum Current per MPPT ( $I_{mp}$ )	13 A <sup>5</sup>
	Maximum Short Circuit Current per MPPT ( $I_{sc}$ )	15 A <sup>5</sup>

Battery Technical Specifications	Nominal Battery Energy	13.5 kWh AC <sup>2</sup>
	Maximum Continuous Discharge Power	11.5 kW AC
	Maximum Continuous Charge Power	5 kW AC
	Output Power Factor Rating	0 - 1 (Grid Code configurable)
	Maximum Continuous Current	48 A
	Maximum Output Fault Current	10 kA
	Load Start Capability (1 s)	150 A LRA
	Power Scalability	Up to 4 Powerwall 3 units supported

<sup>1</sup>Typical solar shifting use case.  
<sup>2</sup>Values provided for 25°C (77°F), at beginning of life. 3.3 kW charge/discharge power.  
<sup>3</sup>Tested using CEC weighted efficiency methodology.  
<sup>4</sup>Cellular connectivity subject to network service coverage and signal strength.  
<sup>5</sup>Where the DC input current exceeds the MPPT rating, a jumper can be used to combine two MPPTs into a single input to intake DC current up to 26 A  $I_{mp}$  / 30 A  $I_{sc}$ .