

# Tesla Powershare Home Backup

Tesla products with the Tesla Powershare feature support bidirectional power transfer, allowing compatible Tesla electric vehicles (EVs) to supply electrical power when they are not being used for transportation. Compatible Tesla EVs with the Powershare feature can power the home (Vehicle-to-Home, or V2H), providing backup power and ensuring resilience for several days in the event of a grid outage.



# Tesla Powershare Backup Hardware Specifications

## Powershare Home Backup Electrical Specifications

Nominal Grid Voltage (Input & Output)	120/240 VAC Split Phase
EVSE Voltage	240 VAC
Grid Frequency	60 Hz
Continuous Neutral Current	18A <sup>1</sup>
Neutral Balancer Apparent Power	4.32 kVA
Maximum Continuous Current	48 A RMS
Maximum Continuous Real Power	11.5 kW
Maximum Continuous Apparent Power	11.5 kVA
Peak Current	90A RMS for 0.5 s <sup>2</sup>
Load Start Capability (1 s)	110 A LRA
EV to EVSE Communication	PLC over Control Pilot Power

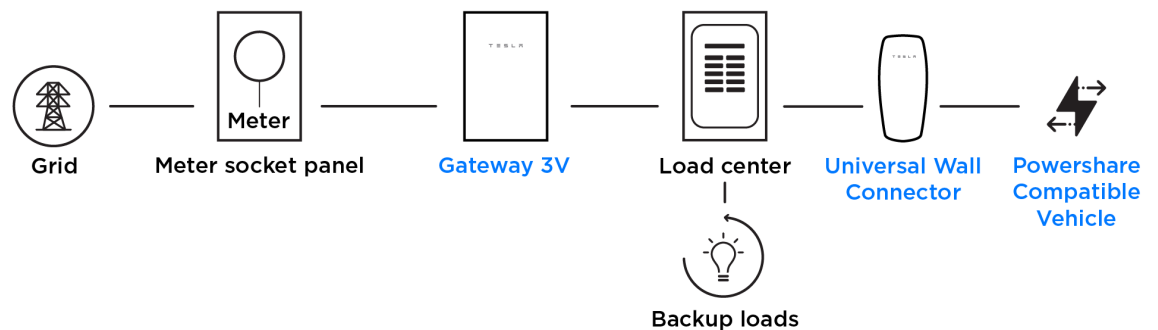
<sup>1</sup>Transformer provides neutral balancing.

<sup>2</sup>Values provided for ambient conditions 25°C (77°F).

## Compliance Information

Certifications	UL 9741, UL 1741, UL 1741 (Standalone requirements), CSA C22.2#107.1 (Standalone requirements), UL 916, UL 2594
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### Powershare-Capable System (Standard)



# Gateway 3V Specifications

Tesla Gateway 3V controls connection to the grid, automatically detecting outages and providing seamless transition to backup power. It also provides energy metering, allowing home energy usage monitoring from any mobile device with the Tesla app.

## Performance Specifications

<b>Model Number</b>	1841000-x2-y
<b>Continuous Current Rating</b>	200 A
<b>Maximum Supply Short Circuit Current</b>	22 kA with Square D or Eaton main breaker 25 kA with Eaton main breaker <sup>3</sup>
<b>IEC Protective Class</b>	Class I
<b>Overvoltage Category</b>	Category IV at 150V
<b>AC Meter</b>	Revenue accurate (+/- 0.5%)
<b>Connectivity</b>	Wi-Fi (2.4 and 5 GHz), Dual-port switched Ethernet, Cellular (LTE/4G) <sup>4</sup>
<b>Communication with Wall Connector</b>	RS-485
<b>User Interface</b>	Tesla app
<b>Installer Interface</b>	Tesla installer app
<b>Backup Transition</b>	Automatic disconnect for seamless backup
<b>Overcurrent Protection Device</b>	100–200 A Service entrance rated Eaton CSR, BWH, or BW, or Square D QOM breakers
<b>Internal Panelboard</b>	200 A 8-space/16 circuit breakers Eaton BR, Siemens QP, or Square D HOM breakers rated to 10–125A
<b>Warranty</b>	10 years

<sup>3</sup>Only Eaton CSR or BWH main breakers are 25 kA rated.

<sup>4</sup>Cellular connectivity subject to network service coverage and signal strength.

## Environmental Specifications

<b>Operating Temperature</b>	-20°C to 50°C (-4°F to 122°F)
<b>Storage Temperature</b>	-30°C to 60°C (-22°F to 140°F)
<b>Operating Humidity (RH)</b>	Up to 100%, condensing
<b>Maximum Elevation</b>	3000 m (9843 ft)
<b>Environment</b>	Indoor and outdoor rated
<b>Enclosure Type</b>	NEMA 3R

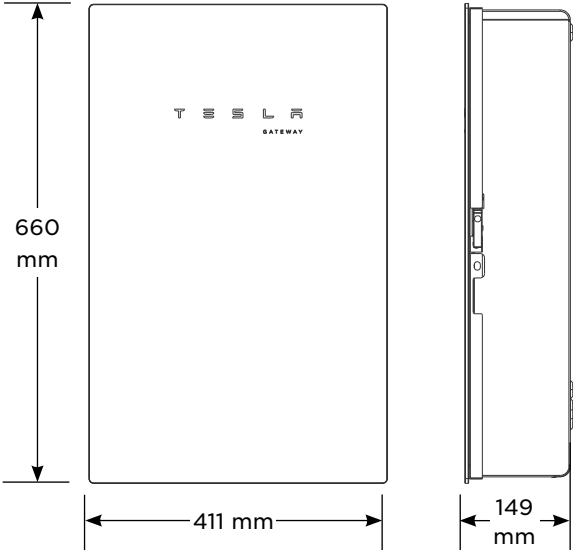
## Compliance Information

<b>Certifications</b>	UL 1741, UL 67, UL 869A, CSA C22.2#205
<b>Emmissions</b>	FCC 47 Part 15 Subpart B, ICES 003, CISPR 25, IEC 61851-21-2
<b>Environmental</b>	CA Prop 65, UL 50, UL 50E, CSA C22.2#94, CSA C22.2#94.1 & .2

# Gateway 3V Specifications

## Mechanical Specifications

Dimensions	660 x 411 x 149 mm (26 x 16 x 6 in)
Weight	30 kg (66.1 lb)
Mounting options	Wall mount



# Universal Wall Connector Specifications

The Universal Wall Connector enables bi-directional charging, meaning that when an EV is plugged in it can either charge or power the home.

## Electrical Specifications

<b>Model Number</b>	1734412-xx-y
<b>Nominal Grid Voltage</b>	240 V
<b>Grid Configuration</b>	L-L 1-phase
<b>Current</b>	Maximum 48 A (adjustable by installer)
<b>Grounding Scheme</b>	TN
<b>Means of Disconnect</b>	External branch circuit breaker
<b>Residual Current Detection</b>	Integrated, CCID20
<b>Connectors</b>	NACS, J1772
<b>Connectivity</b>	Wi-Fi (2.4 GHz, 802.11b/g/n)
<b>Communication with Gateway 3V</b>	RS-485
<b>User Interface</b>	Tesla app
<b>Installer Interface</b>	Tesla installer app
<b>Warranty</b>	4 years (residential use)

## Environmental Specifications

<b>Operating Temperature</b>	-30°C to 50°C (-22°F to 122°F)
<b>Storage Temperature</b>	-40°C to 85°C (-40°F to 185°F)
<b>Enclosure Type</b>	NEMA 3R

## Compliance Information

<b>Certifications</b>	UL 2594 / CSA C22.2#280, UL 2251 / CSA C22.2#280, UL 2231-1 & -2 / CSA C22.2#281.1 & .2
<b>Emmissions</b>	FCC 47 Part 15 Subpart B, ICES 003
<b>Environmental</b>	CA Prop 65, UL 50, UL 50E, CSA C22.2#94, CSA C22.2#94.1 & .2

## Mechanical Specifications

<b>Wall Connector Dimensions</b>	345 x 155 x 110 mm (13.6 x 6.1 x 5.9 in)
<b>Wire Box Bracket Dimensions</b>	250 x 120 x 50 mm (9.8 x 4.7 x 2 in)
<b>Weight (including bracket)</b>	6.8 kg (15 lb)
<b>Cable Length</b>	1734412-x2-y: 7.3 m (24 ft) 1734412-x3-y: 4 m (13.1 ft)

