

## Verification of Conformity

On the basis of the evaluations undertaken, the sample(s) of the below product have been found to comply with the requirements of the referenced specifications at the time the tests were carried out.

<b>Applicant Name &amp; Address</b>	<b>: Tesla Inc. 3500 Deer Creek Road, Palo Alto, CA 94304</b>
<b>Product(s) Tested</b>	<b>: AC Powerwall - Grid Support Utility Interactive Inverter Gateway</b>
<b>Ratings and principal characteristics</b>	<b>: See Amendment 1</b>
<b>AC Powerwall Model(s)</b>	<b>: 2012170-xx-y, 3012170-xx-y</b>
<b>Gateway Model(s)</b>	<b>: Backup Gateway North America 2.0 model: 1232100 - followed by two numbers; followed by one letter</b>
<b>Brand name/ MD5 checksum</b>	<b>: Tesla / b624638a90cf</b>
<b>Relevant Standard(s)/Specification(s)</b>	<b>: Inverters, Converters, Controllers And Interconnection System Equipment For Use With Distributed Energy Resources [UL 1741:2010 Ed.2(Supplement SA)+R:15Feb2018] Power Control Systems (PCS) Certification Requirement Decision 3/8/2019</b>
<b>Verification Issuing Office Name &amp; Address</b>	<b>: Intertek, 3933 US Route 11, Cortland, NY 13045, USA</b>
<b>Gateway Date of Test(s)</b>	<b>: 11/4/2019-12/4/2019 and 4/23/2020 to 5/13/2020</b>
<b>Verification/Report Number(s)</b>	<b>: 104267560CRT-001, 103879962CRT-003</b>

**NOTE: This verification is part of the full test report(s) and should be read in conjunction with it. Photovoltaic input application is not evaluated as part of this PCS evaluation. Import Only Mode.**

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**Signature**



**Name: Dipesh Patel**  
**Position: Technical Lead**  
**Date: 23 June 2023**

**Amendment 1:  
Backup Gateway North America 2.0 Nameplate**

**BACKUP GATEWAY 2**




PLACE TESLA  
PN / BARCODE  
LABEL HERE

Conforms to:  
UL STDS 67, 916, & 869A

Certified to:  
CSA STDS C22.2 # 205 & 0.19

PROTECTIVE CLASS	CLASS I
ENCLOSURE TYPE (UL 50)	NEMA TYPE 3R, RAINTIGHT
OPERATING TEMPERATURE RANGE	-4°F TO 122°F
<b>AC INPUT / OUTPUT</b>	
VOLTAGE RANGE (2 Ø)	110-240VAC
MAX CURRENT	200A
MAX INPUT SHORT CIRCUIT CURRENT	10kA*
FREQUENCY	60Hz
MAXIMUM POWER	48kW
<small>*WHEN PROTECTED BY 200 AMPERE MAXIMUM CLASS J FUSE THIS PANELBOARD IS SUITABLE FOR USE ON A CIRCUIT CAPABLE OF DELIVERING NOT MORE THAN 22KA RMS SYMMETRICAL AMPERES, 240 VOLTS MAXIMUM</small>	

SEE DOCUMENTATION  
FOR ADDITIONAL  
SAFETY INFORMATION

**CAUTION:**  
RISK OF ELECTRIC SHOCK. MULTIPLE VOLTAGE SOURCES TERMINATED WITHIN. REFER SERVICING TO QUALIFIED PERSONNEL. DISCONNECT EACH CIRCUIT BEFORE SERVICING.

COMPARTMENT FOR SUPPLY AUTHORITY USE ONLY  
WARNING: ISOLATE AT SUPPLY AUTHORITY SOURCE BEFORE ENTERING THIS COMPARTMENT


RISQUE DE CHOC ÉLECTRIQUE. PLUSIEURS SOURCES DE TENSION SONT CONNECTÉES À L'INTÉRIEUR DE CET ÉQUIPEMENT. CHAQUE CIRCUIT DOIT ÊTRE DÉCONNECTÉ INDIVIDUELLEMENT AVANT INTERVENTION. LA MAINTENANCE DOIT ÊTRE EFFECTUÉE PAR DU PERSONNEL QUALIFIÉ.

COMPARTIMENT RÉSERVÉ AU DISTRIBUTEUR D'ÉLECTRICITÉ  
AVERTISSEMENT: ISOLER À LA SOURCE D'ALIMENTATION DU DISTRIBUTEUR AVANT D'OUVRIR CE COMPARTIMENT

THE MAXIMUM OPERATING CURRENT OF THIS SYSTEM MAY BE CONTROLLED ELECTRONICALLY. REFER TO THE MANUFACTURER'S INSTRUCTIONS FOR MORE INFORMATION. MAXIMUM PCS CONTROLLED CURRENT SETTING: 200 AMPS

SUITABLE FOR USE AS SERVICE EQUIPMENT

CLASS CTL PANELBOARD



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### Additional Gateway 2.0 NA PCS ratings

<b>Maximum PCS controlled current</b>	200A
<b>Average Open loop response</b>	0.96 seconds (60ms added for delay between 1 <sup>st</sup> and 9 <sup>th</sup> ACPW)
<b>Maximum open loop response</b>	1.76 seconds (60ms added for delay between 1 <sup>st</sup> and 9 <sup>th</sup> ACPW)
<b>Maximum steady state active power accuracy from final set point (%)</b>	4.65% of rated active power achieved within 2 seconds

### AC Powerwall Ratings

<b>Protective Class</b>	Class I
<b>Enclosure Type</b>	Type 3R
<b>Ingress Protection Battery &amp; Power Electronics/Mirring</b>	IP 67 / IP 56
<b>Operating Temperature Range</b>	-20°C to +50 °C
<b>Derated Temperature Range</b>	+43 °C to +50 °C
<b>Inverter Topology</b>	Isolated
<b>Battery Energy</b>	13.5 kWh
<b>Battery Type</b>	Li.Ion
<b>Weight</b>	125 Kg
<b>AC Input / Output</b>	
<b>Nominal Voltage (A.C. V)</b>	100/120/200/208/220/230/240
<b>Voltage Range &amp; Max Continuous Current</b>	90-110 V AC: 25A 114-126 V AC: 24A 180-220 V AC: 25A 198-220 V AC: 24A 198-242 V AC: 25A 207-253 V AC: 25A 228-252 V AC: 24A
<b>Frequency Range/Nominal (Hz)</b>	50-60; 50/60
<b>Max Continuous Power (kVA)</b>	100 V AC: 2.5 kVA 120 V AC: 2.9 kVA (USA) 200 V AC: 5 kVA 208 V AC: 5 kVA(USA) 220 V AC: 5.5 kVA 230 V AC: 5.8 kVA 240 V AC: 5.8 kVA(USA)
<b>Power Factor Range</b>	-0.85 to +0.85
<b>Max Output Fault Current</b>	32 A AC
<b>Phase</b>	200V/208V/240V; 2W +N +PE; 2Ø; All Other Voltages; 1W +N +PE; 1Ø
<b>Max Supply Fault Current</b>	10 kA AC

### TESTING: Gateway (Import mode only) ACPW

UL 1741 Clause No.	Test description
203.5	Step change in load test
204.1.1	Export limiting from all sources
204.4	Export limiting from Energy Storage Systems
204.5	Import limiting to Energy Storage Systems
205.5 &	Startup / Self Check Abnormal Tests &

205.6	Abnormal Maximum Self-Check Interval Test
205.7	Operating Abnormal Tests

### Revision Summary

Project / date	Comments
G104200718 / 23June2023	Added test table. removed ACPW model 1092170-xx-y