

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.

Applicant Name & Address : Tesla Inc.
3500 Deer Creek Road, Palo Alto, CA 94304

Product(s) Tested : AC Powerwall - Grid Support Utility Interactive Inverter Gateway

Ratings and principal characteristics : See Amendment 1

AC Powerwall Model(s) : 2012170-xx-y, 3012170-xx-y

Gateway Model(s) : Backup Gateway North America 2.0 model: 1232100 - followed by two numbers; followed by one letter

Brand name/ MD5 checksum : Tesla / b624638a90cf

Relevant Standard(s)/Specification(s) : 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

Verification Issuing Office Name & Address : Intertek, 3933 US Route 11, Cortland, NY 13045, USA

Gateway Date of Test(s) : 11/4/2019-12/4/2019 and 4/23/2020 to 5/13/2020

Verification/Report Number(s) : 104267560CRT-001, 103879962CRT-003

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, RAIN TIGHT
OPERATING TEMPERATURE RANGE	-4°F TO 122°F
AC INPUT / OUTPUT	
VOLTAGE RANGE (2 Ø)	110-240VAC
MAX CURRENT	200A
MAX INPUT SHORT CIRCUIT CURRENT	10kA*
FREQUENCY	60Hz
MAXIMUM POWER	48kW
*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	
 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	
 (877) 798-3752 www.tesla.com	

Additional Gateway 2.0 NA PCS ratings

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

AC Powerwall Ratings

Protective Class	Class I
Enclosure Type	Type 3R
Ingress Protection Battery & Power Electronics/Mirring	IP 67 / IP 56
Operating Temperature Range	-20°C to +50 °C
Derated Temperature Range	+43 °C to +50 °C
Inverter Topology	Isolated
Battery Energy	13.5 kWh
Battery Type	Li.Ion
Weight	125 Kg
AC Input / Output	
Nominal Voltage (A.C. V)	100/120/200/208/220/230/240
Voltage Range & Max Continuous Current	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
Frequency Range/Nominal (Hz)	50-60; 50/60
Max Continuous Power (kVA)	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)
Power Factor Range	-0.85 to +0.85
Max Output Fault Current	32 A AC
Phase	200V/208V/240V; 2W +N +PE; 2Ø; All Other Voltages; 1W +N +PE; 1Ø
Max Supply Fault Current	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