

Tesla Inc.
3500 Deer Creek Road,
Palo Alto, CA 94304
USA

29th Sept, 2024

Report Number: US23U76C.004
Project Number: 234201388
Product(s) tested: Powerwall 3 with Backup Gateway 2, Backup Switch & Backup Gateway 3
Model(s): Powerwall 3 - 1707000-XX-Y
Backup Gateway 2 - 1232100-XX-Y
Backup Switch - 1624171-XX-Y
Backup Gateway 3 – 1841000-XX-Y
Powerwall 3 Expansion – 1807000-XX-Y (up to 3 units per Powerwall 3)
(X = 0-9 or A-Z; Y = 0-9 or A-Z)

Dear Mr. Viraj Andrabadu/Mehran Zamani/Gaurav Joglekar,

Based on the evaluations undertaken, the model(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.

Nationally Recognized Testing Laboratory (NRTL)	TUV Rheinland of North America, Inc.
NRTL Issuing Office Address	1279 Quarry Lane, Suite A, Pleasanton, CA 94566
Applicant Name	Tesla, Inc.
Applicant Address	3500 Deer Creek Road, Palo Alto, CA 94304, USA
Model Numbers	Powerwall 3 - 1707000-XX-Y Backup Gateway 2 - 1232100-XX-Y Backup Switch - 1624171-XX-Y Backup Gateway 3 – 1841000-XX-Y Powerwall 3 Expansion – 1807000-XX-Y (X = 0-9 or A-Z; Y = 0-9 or A-Z)
Software/Firmware Version	8586a41c49cfc9fe573b26f4a364b3a3a4cfc85b, cd3614dbf44274e567e68aa4efa62da125c08e79,
Standard(s) Tested	UL 1741: Standard for Inverters, Converters, Controllers and Interconnection System Equipment for Use with Distributed Energy Resources, April 20, 2010. Edition 2 [(Supplement SA)+R:15Feb2018], Power Control Systems (PCS), Certification Requirement Decision 3/8/2019. PCS limits defined by NFPA 2020 edition section 705.13
Testing period:	03/02/2023 – 03/24/2023 & 08/24/23 – 10/30/23

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Reference reports:	<u>Powerwall 3 with Backup Gateway 2:</u> US23MMDW.001, US23MMDW.002 and ETL report no. 104514208CRT-001. <u>Powerwall 3 with Backup Switch:</u> US236F6P.001, US236F6P.002 and ETL Report no. 104338849CRT-001. <u>Powerwall 3 with Gateway 3:</u> US23AXXU.001, US23AXXU.002 and ETL Report no. 105217933CRT-001. <u>Powerwall 3 with Backup Switch and Backup Gateway 2:</u> US236F6P.001, US236F6P.002, US236F6P.003, US23MMDW.001, US23MMDW.002 and ETL report no. 104514208CRT-001. <u>Powerwall 3 Expansion</u> 105428445CRT-001.
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PW3 configuration	
Model	1707000-xx-y (X = 0-9 or A-Z; Y = 0-9 or A-Z)
Nominal Voltage	120/240 VAC Split phase
Rated Output Current	48A
Nominal Frequency (Hz)	60
Max Continuous Power	11.5 kW
Power Factor Range	0-1
DC Input	
Voltage Range	60-550 VDC
Maximum Current per MPPT	13A (6 strings)

PCS ratings with Backup Gateway 2

Maximum PCS controlled current	200 A
Maximum Open loop response time	1.45 seconds
Steady state % power	1% of power stability is achieved in less than 10 seconds
Average Open loop response time	0.273 seconds
Tested for Type of mode	Import Limit and Import only
Note: - PCS function implemented in TACO Board of Powerwall 3 and Current transformers detection and location in Backup Gateway 2 - PW3 with or without Expansion units has Charging capability Import Limit up to 5kW	

Maximum PCS controlled current	200 A
Maximum Open loop response time	0.6 seconds
Steady state % power	1% of power stability is achieved in less than 10 seconds
Average Open loop response time	0.162 seconds
Tested for Type of mode	Export Limit and Export only
Note: PCS function implemented in TACO Board of Powerwall 3 and Current transformers detection and location in Backup Gateway 2	

PCS ratings with Backup Switch

Maximum PCS controlled current	200 A
Maximum Open loop response time	1.75 seconds
Steady state % power	1% of power stability is achieved in less than 10 seconds
Average Open loop response time	0.35 seconds
Tested for Type of mode	Import Limit and Import only
Note: - PCS function implemented in TACO Board of Powerwall 3 and Current transformers detection and location in Backup Switch - PW3 with or without Expansion units has Charging capability Import Limit up to 5kW	

Maximum PCS controlled current	200 A
Maximum Open loop response time	0.85 seconds
Steady state % power	1% of power stability is achieved in less than 10 seconds
Average Open loop response time	0.275 seconds
Tested for Type of mode	Export Limit and Export only
Note: PCS function implemented in TACO Board of Powerwall 3 and Current transformers detection and location in Backup Switch	

PCS ratings with Backup Gateway 3

Maximum PCS controlled current	200 A
Maximum Open loop response time	1.75 seconds

Steady state % power	1% of power stability is achieved in less than 10 seconds
Average Open loop response time	0.35 seconds
Tested for Type of mode	Import Limit and Import only
Note: - PCS function implemented in TACO Board of Powerwall 3 and Current transformers detection and location in Backup Gateway 3 - PW3 with or without Expansion units has Charging capability Import Limit up to 5kW	

Maximum PCS controlled current	200 A
Maximum Open loop response time	0.85 seconds
Steady state % power	1% of power stability is achieved in less than 10 seconds
Average Open loop response time	0.275 seconds
Tested for Type of mode	Export Limit and Export only
Note: PCS function implemented in TACO Board of Powerwall 3 and Current transformers detection and location in Backup Gateway 3	

PCS ratings with Backup Switch + Backup Gateway 2

Maximum PCS controlled current	200 A
Maximum Open loop response time	1.75 seconds
Steady state % power	1% of power stability is achieved in less than 10 seconds
Average Open loop response time	0.35 seconds
Tested for Type of mode	Import Limit and Import only
Note: - PCS function implemented in TACO Board of Powerwall 3 and Current transformers detection and location in Backup switch - PW3 with or without Expansion units has Charging capability Import Limit up to 5kW	

Maximum PCS controlled current	200 A
Maximum Open loop response time	0.85 seconds
Steady state % power	1% of power stability is achieved in less than 10 seconds
Average Open loop response time	0.275 seconds
Tested for Type of mode	Export Limit and Export only
Note: PCS function implemented in TACO Board of Powerwall 3 and Current transformers detection and location in Backup Switch	

Test List table

Clause	Test
203.5	Step change in load test
203.6	Step Change in Generation Test
204.1.1	Export limiting from all sources
204.1.1	Import limiting from all sources
204.1.1	Export limiting Step change in generation
204.1.1	Import limiting Step change in generation
204.4	Export limiting from Energy Storage Systems (Step Load)
204.5	Import limiting to Energy Storage Systems
204.4	Export limiting from Energy Storage Systems (Step Generation)
204.5	Import limiting from other inputs (generation)
205.5 & 205.6	Startup / Self Check Abnormal Tests & Abnormal Maximum Self-Check Interval Test
205.7	Operating Abnormal Tests

Backup Gateway 2 Specifications**Backup Gateway 2 Specifications****Performance Specifications**

AC Voltage (Nominal)	120/240 V
Feed-In Type	Split Phase
Grid Frequency	60 Hz
Current Rating	200 A
Maximum Input Short Circuit Current	10 kA ¹
Overcurrent Protection Device	100-200A; Service Entrance Rated ¹
Overvoltage Category	Category IV
AC Meter	Revenue accurate (+/- 0.2 %)

¹When protected by Class J fuses, Backup Gateway 2 is suitable for use in circuits capable of delivering not more than 22 kA symmetrical amperes.

Mechanical Specifications

Dimensions	26 x 16 x 6 inches (660 x 411 x 149 mm)
Weight	45 lb (20.4 kg)
Mounting	Wall mount, Semi-flush mount

Environmental Specifications

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

Backup Switch Specifications

Backup Switch Specifications

Performance Specifications

Continuous Load Rating	200A, 120/240V Split phase
Short Circuit Current Rating	22 kA with breaker ¹
Communication	CAN

¹The breaker size must be equal to or greater than the available fault current and can be installed either upstream or downstream of the Backup Switch. This Backup Switch is rated for use on a circuit delivering not more than 10,000 RMS symmetrical amperes, 300 V maximum. When used in conjunction with a circuit breaker rated not more than 200 A, the Backup Switch is rated for use on a circuit capable of delivering not more than 22,000 RMS symmetrical amperes, 300V maximum, **not in excess of circuit breaker interrupting rating**. Watthour meter not included in short circuit current rating.

Compliance Information

Safety Standards	USA: UL 414, UL 2735, UL 916, CA Prop 65
Emissions	FCC, ICES

Mechanical Specifications

Dimensions	6.9 x 8.1 x 2.9 inches (176 x 205 x 74 mm)
Weight	2.8 lb (1.27 kg)
Meter and Socket Compatibility	ANSI Type 2S, ringless or ring type
External Service Interface	Contact manual override ² , Reset button
Conduit Compatibility	½-inch NPT

²Manually overrides the contactor position during a service event.

Environmental Specifications

Operating Temperature	-40°F to 122°F (-40°C to 50°C)
Storage Temperature	-40°F to 185°F (-40°C to 85°C)
Enclosure Rating	NEMA 3R
Pollution Rating	PD3

Backup Gateway 3 Specifications

BACKUP GATEWAY 3 SPECIFICATIONS

Performance Specifications

Model Number	1841000-xx-y
Nominal Grid Voltage	120/240 V AC
Grid Configuration	Split phase
Grid Frequency	60 Hz
Continuous Current Rating	200 A
Maximum Supply Short Circuit Current	22 kA with Square D or Eaton main breaker and allowable branch breakers 25 kA with Eaton main breaker and allowable branch breakers ¹
IEC Protective Class	Class I
Overvoltage Category	Category IV
AC Meter	Revenue accurate (+/- 0.5 %)
Overcurrent Protection Device	100-200A; Service Entrance Rated ² ; Eaton CSR, BWH, or BW or Square D QOM breakers
Internal Panelboard	200 A, 8-space / 16 circuit breakers; Eaton BR, Siemens QP, or Square D HOM breakers rated to 10 - 125A

¹See [Acceptable Circuit Breakers on page 21](#) for all allowable main and branch breaker combinations.

² Not to be used as service entrance equipment in Canada.

Mechanical Specifications

Dimensions	26 x 16 x 6 inches (660 x 411 x 149 mm)
Weight	36 lb (16.4 kg)
Mounting	Wall mount

Environmental Specifications

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

Powerwall 3 Expansion Specifications

Powerwall 3 Expansion Specifications

Battery Technical Specifications

Nominal Battery Energy	13.5 kWh
Voltage Range	52 – 92 V DC ¹

¹Expansion units are connected in parallel and are not field serviceable.

Compliance Information

Certifications	UL 1973, UL 9540
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Environmental Specifications

Operating Temperature	–20°C to 50°C (–4°F to 122°F) ²
Operating Humidity (RH)	Up to 100%, condensing
Storage Temperature	–20°C to 30°C (–4°F to 86°F), up to 95% RH, non-condensing, State of Energy (SOE): 25% initial
Maximum Elevation	3000 m (9843 ft)
Environment	Indoor and outdoor rated
Enclosure Rating	NEMA 3R
Ingress Rating	IP67
Pollution Rating	PD3

²Performance may be de-rated at operating temperatures above 40°C (104°F).

Mechanical Specifications

Dimensions	43.5 x 24 x 6.6 in (1105 x 609 x 168 mm) ³
Total Weight of Wall-Mounted Unit (includes cover and bracket)	261.2 lb (118.5 kg)
Weight of Powerwall 3 Expansion (no cover or bracket)	242.5 lb (110 kg)
Weight of Glass Front Cover	14.5 lb (6.5 kg)
Weight of Wall Bracket	4.2 lb (1.9 kg)
Weight of Expansion Harness	2 lb (0.9 kg)
Weight of Expansion Unit Accessories	1.5 lb (0.7 kg)
Mounting Options	Floor or wall mount
Stacking Capability (Floor Mount Only)	Up to (3) Expansion units behind a Powerwall 3
Compatibility with Other Systems	Only compatible with Powerwall 3
Connection to Powerwall 3 or Expansions	Expansion Harness ⁴

Attachments:

1. System Label for PCS
 - a. Powerwall 3 Label

MAX DC VOLTAGE OF PV SYSTEM: _____ V			
TESLA POWERWALL ENERGY STORAGE SYSTEM GRID SUPPORT UTILITY INTERACTIVE & STANDALONE INVERTER		SERIAL NO DATAMATRIX (15mm x 15 mm)	TESLA PART NO. 1707000-XX-Y SN:XXXXXXXXXX
BATTERY ENERGY STORAGE SYSTEM (BESS) & PHOTOVOLTAIC (PV) POWER CONVERSION EQUIPMENT			
NOMINAL BATTERY ENERGY	13.5 KWHR	BESS INVERTER TOPOLOGY	ISOLATED
BATTERY TYPE	LI-ION	OPERATING TEMPERATURE RANGE	-20°C TO 50°C
PROTECTIVE CLASS	CLASS 1	DE-RATED TEMPERATURE RANGE	40°C TO 50°C
ENCLOSURE TYPE	TYPE 3R	MASS	130 KG
PV INVERTER TOPOLOGY	NON-ISOLATED		
BATTERY ENERGY STORAGE SYSTEM (BESS) & PHOTOVOLTAIC (PV) SPECIFICATIONS			
NOMINAL GRID VOLTAGE INPUT & OUTPUT	240 V (AC)	BESS MAX CONTINUOUS INPUT CURRENT; POWER	
GRID VOLTAGE RANGE	211 V - 264 V (AC)	POWERWALL 3 ONLY	20.8 A (AC); 5 KVA
PHASE	2W+N+PE	POWERWALL 3 + EXPANSION	33.3 A (AC); 8 KVA
FREQUENCY	60 HZ	POWER FACTOR	-1 TO +1
MAX SHORT-CIRCUIT CURRENT RATING	10 KA (AC)	PV OPERATING DC INPUT VOLTAGE RANGE	60 - 550 V (DC)
MAX CONTINUOUS OUTPUT CURRENT (AC) (POWER AT 240V)	☐ 24A, (5.8 KVA) ☐ 32A, (7.6 KVA) ☐ 42A, (10 KVA) ☐ 48A, (11.5 KVA)	PV OPERATING DC MPPT VOLTAGE RANGE	60 - 480 V (DC)
MAX CONTINUOUS OUTPUT POWER OFF-GRID (PV ONLY, -20°C TO 25°C)	☐ 64.2A (AC) (15.4 KVA)	PV MAX SYSTEM VOLTAGE	600 V (DC)
		PV MAX INPUT CURRENT	13 A (DC)
		PV DC ARC FAULT PROTECTION	TYPE 1
     			
CONFORMS TO UL STD 9540, UL STD 1741, UL STD 1973, UL STD 1699B, CSA C22.2 No. 107.1, CSA 22.2 No. 330, CSA 22.2 No. 9 292 CONTAINS FCC ID: 2AEIM-WL18DBMOD, XMR2020BG9SM2 CONTAINS IC: 20098-WL18DBMOD, 10224A-2020BG9SM2 GRID SUPPORT INTERACTIVE INVERTER - CSA C22.3 NO. 9 - SUPPLEMENTAL PHOTOVOLTAIC DC ARC FAULT DETECTOR PROTECTION SUITABLE FOR SERIES AND PARALLEL ARCING FAULT PROTECTION			
THE MAXIMUM OPERATING CURRENT OF THIS SYSTEM MAY BE CONTROLLED ELECTRONICALLY. REFER TO THE MANUFACTURER'S INSTRUCTIONS FOR MORE INFORMATION.			
PHOTOVOLTAIC (PV) RAPID SHUTDOWN SYSTEM EQUIPMENT RS2			
ONLY THE INDICATED TERMINALS OF THIS PRODUCT COMPLY WITH PV RAPID SHUTDOWN REQUIREMENTS FOR CONTROLLED CONDUCTORS OUTSIDE THE ARRAY PVSS CONTROLLED CONDUCTOR CONNECTION PORT. REFER TO INSTRUCTIONS FOR CONDITIONS OF USE.			
CAUTION: RISK OF ELECTRIC SHOCK. DO NOT REMOVE COVER NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. BOTH AC AND DC VOLTAGE SOURCES ARE TERMINATED INSIDE THIS EQUIPMENT. EACH CIRCUIT MUST BE INDIVIDUALLY DISCONNECTED BEFORE SERVICING. WHEN THE PV ARRAY IS EXPOSED TO LIGHT IT SUPPLIES A DC VOLTAGE TO THIS EQUIPMENT.			
WARNING: ELECTRIC SHOCK HAZARD. THE DC CONDUCTORS OF THIS PV SYSTEM ARE NORMALLY UNGROUNDED BUT WILL BECOME INTERMITTENTLY GROUNDED WITHOUT INDICATION WHEN THE INVERTER MEASURES THE PV ARRAY ISOLATION. ENERGY STORED IN CAPACITOR. DO NOT REMOVE COVER UNTIL 5 MINUTES AFTER DISCONNECTING THE EQUIPMENT. POWER FED FROM MORE THAN ONE SOURCE. DISCONNECT ALL SOURCES OF SUPPLY BEFORE SERVICING.			
ATTENTION : DES SOURCES D'ALIMENTATION C.A. ET C.C. SONT BRANCHÉES DANS CET EQUIPEMENT AVANT L'ENTRETIEN, CHAQUE CIRCUIT DOIT ÊTRE DÉCONNECTÉ. LORSQUE LE CHAMP DE MODULES PHOTOVOLTAÏQUES EST EXPOSÉ À DE LA LUMIÈRE, IL FOURNIT UNE TENSION CONTINUE À CET EQUIPEMENT.			
AVERTISSEMENT : RISQUES D'ÉLECTROCUTION. NE PAS RETIRER LE COUVERCLE. NE CONTIENT AUCUNE PIÈCE POUVANT ÊTRE RÉPARÉE PAR L'UTILISATEUR. RISQUE DE DÉCHARGE ÉLECTRIQUE. LES CONDUCTEURS DE TENSION CONTINUE DE CE SYSTÈME PHOTOVOLTAÏQUE SONT NORMALEMENT NON MIS À LA TERRE, MAIS ILS DEVIENDRONT PAR MOMENT MIS À LA TERRE, SANS AVERTISSEMENT, LORSQUE L'ONDULEUR MESURE L'ISOLATION DU CHAMP DE MODULES PHOTOVOLTAÏQUES. ÉNERGIE STOCKÉE DANS LE CONDENSATEUR. ATTENDEZ AU MOINS 5 MINUTES APRÈS AVOIR DÉCONNECTÉ L'EQUIPEMENT AVANT DE RETIRER LE COUVERCLE. ALIMENTATION PROVENANT DE PLUSIEURS SOURCES. DÉCONNECTEZ DE TOUTES LES SOURCES DE ALIMENTATION AVANT DE PROCÉDER À L'ENTRETIEN.			
TESLA MADE IN THE USA		TESLA, INC 550 MILAN DR SPARKS, NV, 89437, USA TEL: 1(877)798-3752 WWW.TESLA.COM	

b. Backup Gateway 2 Label

BACKUP GATEWAY 2

PLACE TESLA
PN / BARCODE
LABEL HERE

Conforms to:
UL STDs 67, 916, & 969A

FC 

Certified to:
CSA STDs C22.2 # 205 & 019

PROTECTIVE CLASS	CLASS I
ENCLOSURE TYPE (UL 50)	NEMA TYPE 3R, RAINTIGHT
OPERATING TEMPERATURE RANGE	-4°F TO 122°F

AC INPUT / OUTPUT

VOLTAGE RANGE	110-240VAC
MAX CURRENT	200A
MAX INPUT SHORT CIRCUIT CURRENT	10kA*
FREQUENCY	60Hz
MAXIMUM POWER	48kW

*WHEN PROTECTED BY CLASS J FUSES, THIS PANELBOARD IS SUITABLE FOR USE IN CIRCUITS CAPABLE OF DELIVERING NOT MORE THAN 22kA SYMMETRICAL AMPERES.





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

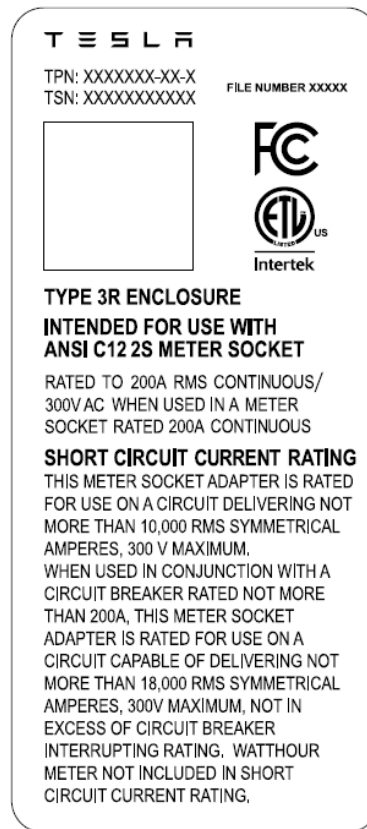
SUITABLE FOR USE AS SERVICE EQUIPMENT

CLASS CTL PANELBOARD



(877) 798-3752 | www.tesla.com

c. Backup Switch Label



d. Backup Gateway 3 Label

GATEWAY 3

PLACE TESLA
PN / BARCODE
LABEL HERE

Conforms to:
UL STDs 67, 916, 869A, & 1741

IEC PROTECTIVE CLASS	CLASS I
ENCLOSURE TYPE	TYPE 3R, RAINPROOF
OPERATING TEMPERATURE RANGE	-20°C TO 50°C (-4°F TO 122°F)
AC INPUT / OUTPUT	
NOMINAL VOLTAGE	120/240VAC
MAX CONTINUOUS CURRENT	200A
MAX SUPPLY SHORT CIRCUIT CURRENT	25kA*
GRID FREQUENCY	60Hz

*SEE INSTALLATION MANUAL FOR ALLOWABLE MAIN AND BRANCH BREAKER COMBINATIONS

SEE DOCUMENTATION FOR ADDITIONAL SAFETY INFORMATION

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

WARNING: ISOLATE AT SUPPLY AUTHORITY SOURCE BEFORE ENTERING THIS COMPARTMENT

ATTENTION: 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.

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

SUITABLE FOR USE WITH INTERCONNECTED PARALLEL ELECTRIC POWER PRODUCTION SOURCES

SUITABLE FOR USE AS SERVICE EQUIPMENT

CLASS CTL PANELBOARD

TESLA, INC.
SOUTH PARK AVENUE
BUFFALO, NY 14220, USA
TEL: 1(877)798-3752
WWW.TESLA.COM

e. Powerwall 3 Expansion Label

BATTERY ENERGY STORAGE SYSTEM (BESS) SPECIFICATIONS

NOMINAL BATTERY ENERGY	13.5 KWHR
BATTERY TYPE	LI-ION
PROTECTIVE CLASS	CLASS I
ENCLOSURE TYPE	TYPE 3R
BATTERY INGRESS PROTECTION	IP67
OPERATING TEMPERATURE RANGE	-20°C TO 50°C
DE-RATED TEMPERATURE RANGE	40°C TO 50°C
MASS	110 KG
NOMINAL VOLTAGE	83.7 V (DC)
VOLTAGE RANGE	52 V - 92 V (DC)
CONFORMS TO ANSI/CAN/UL STD 9540 & ANSI/CAN/UL 1973	

CAUTION: RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. DC VOLTAGE SOURCES ARE TERMINATED INSIDE THIS EQUIPMENT. EACH CIRCUIT MUST BE INDIVIDUALLY DISCONNECTED BEFORE SERVICING.

WARNING: ELECTRIC SHOCK HAZARD. POWER FED FROM MORE THAN ONE SOURCE. DISCONNECT ALL SOURCES OF SUPPLY BEFORE SERVICING.

ATTENTION : RISQUES D'ÉLECTROCUTION. NE PAS RETIRER LE COUVERCLE. NE CONTIENT AUCUNE PIÈCE POUVANT ÊTRE RÉPARÉE PAR L'UTILISATEUR. DES SOURCES D'ALIMENTATION C.C. SONT BRANCHÉES DANS CET ÉQUIPEMENT AVANT L'ENTRETIEN, CHAQUE CIRCUIT DOIT ÊTRE DÉCONNECTÉ.

AVERTISSEMENT : RISQUE DE DÉCHARGE ÉLECTRIQUE. ALIMENTATION PROVENANT DE PLUSIEURS SOURCES. DÉCONNECTEZ DE TOUTES LES SOURCES DE COURANT AVANT DE PROCÉDER À L'ENTRETIEN.

TESLA
MADE IN THE USA

TESLA, INC
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Thank you for the opportunity to service your product testing needs. Please do not hesitate to contact our engineering or sales team for any questions you may have.

Evaluated by:

Reviewed by:

Himanshu Vaidya

Howard Liu

Test Engineer

*Manager, Power Electronics Segment
– Americas*

Email: hvaidya@us.tuv.com

Email: hliu@us.tuv.com

Report History:

03/28/23	- US23U76C.001 - Original
04/18/23	- US23U76C.002 – Added Backup Switch configuration information to support PCS functionality with Powerwall 3. Added test list table Added ESS operating modes.
07/25/23	- US23U76C.003 – Added Backup Gateway 3 configuration information to support PCS functionality with Powerwall 3.
11/14/23	- US23U76C.004 – Added Export only mode details for all combination.
02/13/24	- US23U76C.004 – Updated typo error on page 2 & added table for PW3+GW2+MSA combination
09/23/24	- Added Powerwall 3 Expansion information on page 1, 2, 3, 4, 8 and 13.