



**THIS IS NOT  
AN ORDER**

**REQUEST FOR BIDS/PROPOSALS COVERSHEET**  
**THE UNIVERSITY OF SOUTHERN MISSISSIPPI**

**Procurement and Contract Services**  
**118 College Drive #5003, Hattiesburg, Mississippi 39406-0001**

**Date:** March 27, 2025

**Name:** \_\_\_\_\_

**BID No. 25-42**

**Company:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**City/State/Zip:** \_\_\_\_\_

THE UNIVERSITY OF SOUTHERN MISSISSIPPI is considering the purchase of the following item(s). We ask that you submit your bid and retain one copy for your files. Right is reserved to accept or reject any part of your bid. Your quotation will be given consideration if received in Bond Hall, Room 214 on or before:

2:00 p.m. CT

TERMS - Bidder should state terms of sale. Our terms are 2% ten days, net 45 days.

These terms will apply per Mississippi law.

AWARDING CONTRACT - Cash terms will not be used as a basis for awarding contracts; however, the University will accept cash discounts when earned.

April 15, 2025

**Buyer:** Amber Floyd

NOTE: If you cannot quote on the exact material shown, please indicate any exception giving brand name and complete specifications of any alternate. If additional space is required, use a separate sheet or letter of transmittal.

ITEM	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL NET PRICE
		<b>BID 25-42 Photovoltaic System</b>		
		<b>RFx # 3160007288</b>		
		PROPOSAL MUST BE RETURNED TO THE UNIVERSITY IN ACCORDANCE WITH THE SPECIFICATIONS. RFP NUMBER AND DATE OF BID OPENING MUST BE SHOWN ON THE OUTSIDE OF THE ENVELOPE IF USING THAT METHOD.		

We quote you as above - F.O.B. The University of Southern Mississippi.

Shipment can be made in \_\_\_\_\_ days from receipt of order. DATE \_\_\_\_\_

Return quotation to Procurement Services at above address.

**Bid # 25-42**  
**University of Southern Mississippi**  
**Building Integrated Photovoltaic System**

**1.0 Introduction**

**1.1** The University of Southern Mississippi (USM) is looking to procure a building integrated photovoltaic (BIPV) energy harvesting system that can directly convert sunlight to electricity (e.g. photovoltaic shingles), thereby providing electricity (16 kW<sub>DC</sub>) to the building and powering/charging the building's backup power system, which is provided via Tesla Powerwall 2 (Model Number: 2012170-05-E).

**2.0 Specifications**

**2.1 GENERAL PERFORMANCE SPECIFICATIONS**

- 2.1.1 Preferable that the BIPV system be applied to the roof of the building located at 188 Golf Course Rd, Hattiesburg MS, 39402, in the form of a solar roof (e.g. photovoltaic shingles)
- 2.1.2 The BIPV system MUST be compatible with Tesla Powerwall 2 (Model Number: 2012170-05-E) and all associated parts (i.e. Tesla Backup Gateway 2, Model Number: 1232100-xx-y)
- 2.1.3 Electricity generated by the BIPV must be isolated within the local system, and NOT feed surplus electricity into the city's electrical grid

**2.2 REQUIREMENTS**

- 2.2.1 The following specifications are to ensure that the BIPV can properly function in a safe manner, providing direct and backup power to the building, and ensuring that any generated electricity is NOT distributed back the local electrical grid. Any deviation from the following specifications must be explained and justified
- 2.2.2 Bidder shall meet or exceed the following capabilities and design specifications:
  - General Equipment Description:
    - **Building Integrated Photovoltaic (BIPV) System**
      - Photovoltaic energy harvesting system that is integrated into the existing infrastructure of the building, providing a minimum power of 16 kW<sub>DC</sub> to the building at 188 Golf Course Rd, Hattiesburg MS, 39402
      - The BIPV system must include a transfer switch (e.g. Tesla Backup Gateway 2, Model Number: 1232100-xx-y, See **APPENDIX 2**) that is compatible with Tesla Powerwall 2 (Model Number: 2012170-05-E (See **APPENDIX 1**))
      - The BIPV system must be compatible with Tesla Powerwall 2 (Model Number: 2012170-05-E (See **APPENDIX 1**))
      - Materials for BIPV must have a Fire Rate of Class A

- Materials for BIPV must be listed UL 61730, UL 9703 and UL 1741
- Bid must include an opinion of probable cost (OPC) for the necessary materials to ensure that the roof has the load capacity to withstand the BIPV
- **Installation**
  - Installation of the BIPV system to the exterior of the building, with special preference given to solar roofing options (i.e. photovoltaic shingles). The square footage of the building is 1,000 ft<sup>2</sup>, and the square footage of the roof is roughly 1,400 ft<sup>2</sup>.
  - An estimate of the costs associated for structural repairs to the current roof may be needed in order to provide the load capacity required by the BIPV system.
  - The BIPV must be compatible with single-phase load for the building
  - Once installed, the BIPV system must be turnkey
  - The installation must include connections to the building's power backup system, which includes three Tesla Powerwall 2 (Model Number: 2012170-05-E (See **APPENDIX 1**) and a Tesla Backup Gateway 2 (Model Number: 1232100-xx-y, See **APPENDIX 2**)
  - Installer must have the required licenses/permits for installation, including
    - A valid Mississippi contractor's license through the *Mississippi State Board of Contractors* in building construction or electrical work
    - A Specialty Classification, the *Stand-Alone Classification for Solar and Wind Construction*.
  - Installer must verify safe installation with the utility company (Mississippi Power) using a "Commissioning" or "Witness Test" of the BIPV
- **System Validation**
  - Upon installation and approval from utility company ("Commissioning" or "Witness Test"), installer will train on proper use, care, maintenance and safety concerns of the BIPV system
  - Upon installation and approval from utility company ("Commissioning" or "Witness Test"), installer will demonstrate tracking methods to monitor electricity input and usage
- **The following items shall also be provided with the equipment**
  - Initial installation and training
  - 10 year Warranty on the BIPV
  - Safety demonstration during operational use
  - Systems operations guide, maintenance manual, and spare parts list

## **2.3 CUSTOMER SUPPORT**

- 2.3.1 The vendor should be willing to help The Mississippi Polymer Institute at The University of Southern Mississippi resolve any technical issues associated with the system, not only in the warranty period but also out of the warranty with reasonable service fee and lead time. Online and on-call technical support for unit for the lifetime of the system shall also be provided. A minimum of one full day of installation and familiarization and 3 days of onsite or online training with university staff. Training to include system setup, operation, maintenance, and troubleshooting.

## **2.4 SAFETY**

- 2.4.1 Safety should be well weighted in the equipment design and engineering delivery. Electronic controls shall be enclosed and not exposed to water or the external environment.
- 2.4.2 A demonstration of the safe and proper usage of the instrument must be included during installation

## **2.5 WARRANTY**

- 2.5.1 Bidder warrants that the machinery shall be free from defects in material and workmanship under normal use and service with the obligation to repair or replace any parts which are proven defective, with a minimum of one year from delivery with a warranty start date which commences post system installation and verification.

## **2.6 DELIVERY**

- 2.6.1 Vendor should quote the lead time required for delivery of the quoted equipment. Lead time shall not be greater than 16 weeks. Quoted prices should be F.O.B. Destination Freight Allowed. Onsite installation and system check is required.

## **3.0 Points of Contact**

For questions, contact the Buyer listed on the Bid Coversheet at:

[bids@usm.edu](mailto:bids@usm.edu)

## **4.0 Submission Instructions to Bidders**

One (1) signed original, two (2) copies, and one (1) portable virus/malware free electronic version (USB jump drive) of the sealed bid response (if an electronic copy is not included, USM reserves the right to request an electronic copy of the exact bid response prior to review of the bid), subject to the conditions made a part hereof, will be received by\_\_\_\_\_, in the USM Procurement and Contract Services office, as indicated in the General Terms, Conditions, and Instructions to Bidders described herein. It is the responsibility of the respondent to ensure that the proposal

package arrives in the Procurement and Contract Services Office.

Each bid **must** be submitted in a sealed envelope bearing on the outside the name "Bid #\_\_\_\_ advanced battery for MPI" the name of the Vendor, and the opening date specified on the coversheet.

The proposal should be addressed as follows:

For regular mail:

The University of Southern Mississippi  
Attn: Amber Floyd, Buyer  
118 College Drive, Box 5003  
Hattiesburg, MS 39406  
Bid 25-42

For FedEx, UPS, or other express couriers:

The University of Southern Mississippi  
Attn: Amber Floyd, Buyer  
2609 W. 4th Street  
Hattiesburg, MS 39401  
Bid 25-42

Hand-carried responses should be brought to:

The University of Southern Mississippi  
Attn: Amber Floyd, Buyer  
214 Bond Hall  
Hattiesburg, MS 39406  
Bid 25-42

As an alternative to traditional sealed proposals in envelopes, the University of Southern Mississippi is capable of receiving electronic bid responses. While this option is available, it is not required and we ask that all potential respondents keep in mind that with any electronic system there could be delays or glitches with the submission process; therefore the University *highly encourages traditional sealed responses* which are either mailed or submitted in person. Additionally, the University will not be responsible for issues with attempted submissions of bids using the electronic method.

**Please note that emailed bids will not be accepted.**

Should a vendor choose to submit their response electronically, please follow the instructions below using the following website:

[https://www.ms.gov/dfa/contract\\_bid\\_search/Home/Sell](https://www.ms.gov/dfa/contract_bid_search/Home/Sell)

On this site you will find helpful links to procurement opportunities, as well as a link to supplier registration. If not already registered in this system, potential bidders will first need to click on 'Supplier Registration' and follow the steps outlined (a one-time process). Once registered, suppliers can return to the original website and click on 'Procurement Opportunities' where they can either search by keyword for the bid they desire to respond to or leave the search box blank and click 'Search' for a listing of all current bids and proposals for the various State of Mississippi offices.

Any bid may be withdrawn prior to scheduled time for the opening of bids or authorized postponement thereof. Any bid received after the time and date specified will not be considered.

The University of Southern Mississippi reserves the right to accept or reject any or all bids and to waive any formalities.

The University of Southern Mississippi reserves the right to accept or reject optional line items included in the bid response.

Vendors are responsible for examining all specifications, terms, conditions, and instructions of this request. Failure to do so will be at Vendor's risk.

In order to ensure all interested bidders receive any addenda that may be issued, proposers must email their intent to bid using the Intent to Bid link on the USM Bid Calendar under Bid 22-38 prior to the deadline to submit:

<https://www.usm.edu/procurement-contract-services/current-bids-and-sole-source-notices.php>

**THE UNIVERSITY OF SOUTHERN MISSISSIPPI  
PROCUREMENT SERVICES  
118 COLLEGE DRIVE  
#5003  
HATTIESBURG, MS 39406-0001**

**GENERAL TERMS, CONDITIONS AND INSTRUCTIONS FOR BIDS/PROPOSALS**

- 1.) Failure to examine any drawings, specifications, and instructions will be at bidder's risk.
- 2.) Samples of items when called for must be furnished free of expense and if not destroyed in testing, will, upon request, be returned at the bidder's expense. Request for the return of samples must be made within ten (10) days following opening bids. Each individual sample must be labeled with bidder's name and manufacturer's brand name and number.
- 3.) Bids must be signed and sealed with bidder's name and address on the outside of the envelope, and the time and date of the bid opening and the bid file number shown in the lower-left corner of the packages; envelopes, express mailing labels, boxes, etc.
- 4.) At least one (1) signed original and one (1) signed copy of the bid **MUST** be provided. The University **requires** a portable electronic virus/malware free copy (thumb drive) of the bid response from the responding Vendor to be included in the bid response package. If an electronic copy is not included, the University reserves the right to request an electronic copy of the **exact** bid response prior to review of the bid.
- 5.) For your bid to be considered, it must be received, and time stamped in our office by 2:00 P.M. of the bid opening date. It is the responsibility of the vendor to ensure their bid is received within the appointed time. If your bid package is not received in Bond Hall, Room 214, by 2:00 P.M. of the bid opening date, it will not be considered.
  - a. If you are delivering your bid, you need to hand carry the bid package to: The University of Southern Mississippi  
Procurement Services  
Bond Hall, Room 214  
Hattiesburg, Mississippi
  - b. If you are mailing your bid package via U.S. Postal Service, mail to: The University of Southern Mississippi  
Procurement Services  
118 College Drive #5003  
Hattiesburg, MS 39406-0001
  - c. If you are express mailing your bid package via Federal Express or UPS, or any other delivery service which requires the use of a physical address, deliver to:

The University of Southern Mississippi  
Receiving Department  
2609 West 4<sup>th</sup> Street  
Hattiesburg, MS 39401

- 6.) Bids or proposals shall not be modified, corrected, altered, or amended after the specified closing time and the opening of such bids, unless otherwise noted in the request for bids or proposals.
- 7.) The University of Southern Mississippi reserves the right to reject any and all bids, to waive any informality in bids, and unless otherwise specified by the bidders, to accept any items on the bid. If the bidder fails to state the time within which bids must be accepted, it is understood and agreed that The University of Southern Mississippi shall have 90 days to accept. The University of Southern Mississippi reserves the right to make an award to this bid on an all or none basis, or on a line-by-line basis, whichever serves the best interest of The University of Southern Mississippi.
- 8.) Contracts and purchases will be made or entered into with the lowest, responsible bidder meeting specifications.
- 9.) A written purchase order or contract award mailed or otherwise furnished to the successful bidder within the time of acceptance specified in the Invitation for Bid results in a binding contract without further action by either party. The contract shall not be assignable by the vendor in whole or in part without the written consent of The University of Southern Mississippi.
- 10.) Unless written exception is provided in the bid response, the winning Vendor agrees to be bound by the USM Terms and Conditions, which are incorporated herein, and may be found at <https://www.usm.edu/procurement-contract-services/usm-terms-and-conditions>.
- 11.) Respondents are required to comply with all applicable local, State and Federal laws, codes, ordinances, and regulations in the provision of the materials required.
- 12.) Respondents must comply with Personally Identifiable Information (PII) data protection regarding State, Federal, and University regulations and policies.
- 13.) Mandatory Legal Provisions
  - a. Any provisions disclaiming implied warranties shall be null and void. See Mississippi Code Annotated Sections 11-7-18 and 75-2-719(4). The Vendor shall not disclaim the implied warranties of merchantability and fitness for a particular purpose.
  - b. The Vendor shall have no limitation on liability for claims related to the following items:
    - i. Infringement issues;
    - ii. Bodily injury;
    - iii. Death;
    - iv. Physical damage to tangible personal and/or real property; and/or



- c. The intentional and willful misconduct or negligent acts of the Vendor and/or Vendor's employees or subcontractors.
  - d. All requirements that the University pay interest are deleted, except for those in conjunction with USM's standard payment terms of Net 45 days. Payments made beyond 45 days are subject to late fees and interest.
  - e. Should any of the terms and conditions in the purchase contract conflict with the laws of the State of Mississippi, the laws of the State of Mississippi shall supersede and govern. A revision of the terms and conditions will be required to ensure compliance with Mississippi state law.
  - f. The University shall not pay any attorney's fees, prejudgment interest or costs associated with any legal action to or for the Vendor, except that which are ordered by a court of competent jurisdiction.
- 14.) Bid files may be examined during normal working hours by bid participants. Non- participants will be prohibited from obtaining any information relative to the bid until the official award has been made.
- 15.) If purchase orders or contracts are canceled because of the awarded vendor's failure to perform or request for price increase, that vendor shall be removed from our bidders'list for a period of 24 months.
- 16.) No addendum will be issued within a period of two (2) working days prior to the time and date set for the bid opening. Should it become necessary to issue an addendum within the two-day period prior to the bid opening, the bid date will be reset giving bidders ample time to answer the addendum.
- 17.) Alternate bids, unless specifically requested or allowed, will not be considered.
- 18.) Bid openings will be conducted open to the public. However, they will serve only to open the bids. No discussion will be held with any vendor as to the quality or provisions of the specifications, and no award will be made either stated or implied at the bid opening. After the close of the bid opening meeting, the bids will be considered to be in the evaluation process and will not be available for review by bidders. Proposal openings are not required to be open to the public; however, the resulting award is open for public inspection.
- 19.) Prices quoted shall be firm for the term of the contract or for the stated time of acceptance.
- 20.) The bidder understands that The University of Southern Mississippi is an equal opportunity employer and, therefore, maintains a policy which prohibits unlawful discrimination based on race, color, creed, sex, age, national origin, physical handicap, disability, or any other such discrimination; and the bidder, by signing this bid, agrees during the term of agreement that the bidder will strictly adhere to this policy in its employment practices and provision of products or services.
- 21.) Bidders must upon request of The University of Southern Mississippi furnish satisfactory evidence of their ability to furnish products or services in accordance with the terms and conditions of these specifications. The University of Southern

Mississippi reserves the right to make the final determination as to the bidder's ability.

- 22.) Questions or problems arising from bid procedures should be directed to the Buyer listed on the solicitation at:

The University of Southern Mississippi  
118 College Drive #5003  
Hattiesburg, MS 39406-0001  
Phone: (601) 266-4131  
[Bids@usm.edu](mailto:Bids@usm.edu)

- 23.) All items must equal or exceed the specifications listed. The absence of detailed specifications or the omission of detailed description shall be recognized as meaning that only the best commercial practices are to prevail, and that only first quality materials and workmanship are to be used.
- 24.) It is the intent of the specifications to obtain a product that will adequately meet the needs of the user while promoting the greatest extent of competition that is practicable. It is the responsibility of the prospective bidder to review the entire Invitation to Bid packet and to notify The University of Southern Mississippi if the Specifications, Instructions, General, or Special Conditions are formulated in a manner which would unnecessarily restrict competition.
- 25.) It shall be incumbent upon the bidders to understand the specifications. Any requests for clarifications shall be in writing and shall be submitted to our Procurement Services office at least seven (7) business days prior to the time and date set for the bid opening, unless otherwise noted in the bid or proposal specifications.
- 26.) The minimum specifications are used to set a standard and in no case are used with the intention of discriminating against any manufacturer. Bidders should note the name and the manufacturer and model number of the product they propose to furnish and submit descriptive literature.
- 27.) Trade names, brand names, and/or manufacturer's information used in these specifications are for the purpose of establishing quality, unless otherwise noted. Bids on products of other qualified manufacturers are acceptable, provided they are demonstrated as equal to those specified in construction, design and suitability. Each bidder shall submit with his bid a complete brochure with pictures on each item and shall point out specifically any deviations from the specified items. Failure to do so may disqualify any bid. Please bid as specified or an approved equal.
- 28.) A copy of the manufacturer's standard guarantee/warranty shall accompany and become a part of this bid.
- 29.) There are no federal or state laws that prohibit bidders from submitting a bid lower than a price or bid given to the U.S. Government. Bidders may bid lower than U.S. Government contract price without any liability as The University of

Southern Mississippi is exempt from the provisions of the Robinson-Patman Act and other related laws. In addition, the U.S. Government has no provisions in any of its purchasing arrangements with bidders whereby a lower price to The University of Southern Mississippi must automatically be given to the U.S. Government.

- 30.) All invoices, unless noted otherwise, are to be billed to:

The University of Southern Mississippi  
IT Invoices  
118 College Drive #5181  
Hattiesburg, MS 39406-0001  
[ITInvoices@usm.edu](mailto:ITInvoices@usm.edu)

- 31.) All equipment bids shall be of current production and of the latest design and construction.
- 32.) Where all, or part(s), of the bid is requested on a unit price basis, both the unit prices and the extension of the unit prices constitute a basis of determining the lowest responsible and responsive bidder. In cases of error in the extension of price, the unit price will govern.
- 33.) Should the University of Southern Mississippi close due to inclement weather conditions, or any other unforeseen events on the bid opening date, sealed bids will open the following business day at the same time and location.
- 34.) As an alternative to traditional sealed bids in envelopes, the University of Southern Mississippi is capable of receiving electronic bid responses. While this option is available, it is not required, and we ask that all potential respondents keep in mind that with any electronic system there could be delays or glitches with the submission process; therefore, the University highly encourages traditional sealed bids which are either mailed or submitted in person. Should a vendor choose to submit their response electronically, please follow the instructions below using the following website:  
[https://www.ms.gov/dfa/contract\\_bid\\_search/Home/Sell](https://www.ms.gov/dfa/contract_bid_search/Home/Sell). On this site you will find helpful links to procurement opportunities, as well as a link to supplier registration. If not already registered in this system, potential bidders will first need to click on 'Supplier Registration' and follow the steps outlined (a one-time process). Once registered, they can return to the original website and click on 'Procurement Opportunities' where they can either search by keyword for the bid they desire to respond to or leave the search box blank and click 'Search' for a listing of all current bids and proposals for the various State of Mississippi offices.

Regarding construction bids, there is one additional step required during the bid submission process. Along with the bid response and other attachments, contractors will also need to attach their Certificate of Responsibility (COR), or a statement that the bid enclosed does not exceed Fifty Thousand Dollars (\$ 50,000.00). If their COR or such statement is not attached, the bid will be invalid and not considered.

**AA/EOE/ADAI**

## Appendix 1

### POWERWALL 2

Tesla Powerwall 2 is a fully-integrated AC battery system for residential or light commercial use. Its rechargeable lithium-ion battery pack provides energy storage for solar self-consumption, time-based control, and backup.

Powerwall's electrical interface provides a simple connection to any home or building. Its revolutionary compact design achieves market-leading energy density and is easy to install, enabling owners to quickly realize the benefits of reliable, clean power.



#### PERFORMANCE SPECIFICATIONS

Model Numbers	1092170-xx-y, 2012170-xx-y, 3012170-xx-y
AC Voltage (Nominal)	120/240 V
Feed-In Type	Split Phase
Grid Frequency	60 Hz
Total Energy	14 kWh <sup>1</sup>
Usable Energy	13.5 kWh <sup>1</sup>
Real Power, max continuous	5 kW (charge and discharge)
Real Power, peak (10 s, off-grid/backup)	7 kW (charge and discharge)
Apparent Power, max continuous	5.8 kVA (charge and discharge)
Apparent Power, peak (10 s, off-grid/backup)	7.2 kVA (charge and discharge)
Maximum Continuous Current	24 A
Maximum Output Fault Current	70 A
Overcurrent Protection Device	30 A
Load Start Capability	88 - 106 A LRA <sup>2</sup>
Imbalance for Split-Phase Loads	100%
Power Factor Output Range	+/- 1.0 adjustable
Power Factor Range (full-rated power)	+/- 0.85
Internal Battery DC Voltage	50 V
Maximum Short-Circuit Current Rating	10 kA
Round Trip Efficiency	90% <sup>1,3</sup>
Warranty	10 years

<sup>1</sup>Values provided for 25°C (77°F), 3.3 kW charge/discharge power.

<sup>2</sup>Load start capability may vary.

<sup>3</sup>AC to battery to AC, at beginning of life.

#### COMPLIANCE INFORMATION

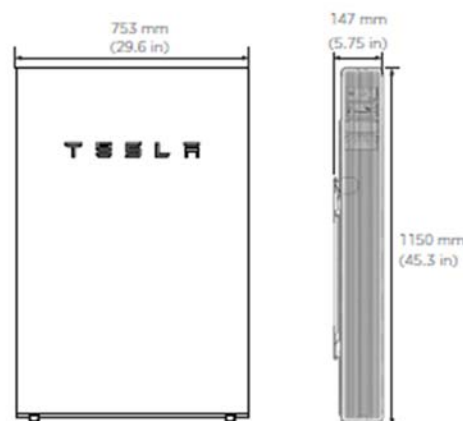
Certifications	UL 1642, UL 1741, UL 1741 SA, UL 1741 SB, UL 1973, UL 9540, IEEE 1547-2018, UN 38.3
Grid Connection	Worldwide Compatibility
Emissions	FCC Part 15 Class B, ICES 003
Environmental	RoHS Directive 2011/65/EU
Seismic	AC156, IEEE 693-2005 (high)
Fire Testing	Meets the unit level performance criteria of UL 9540A

T E S L A

#### MECHANICAL SPECIFICATIONS

Dimensions	1150 x 753 x 147 mm (45.3 x 29.6 x 5.75 in) <sup>4</sup>
Weight	114 kg (251.3 lbs) <sup>4</sup>
Mounting options	Floor or wall mount

<sup>4</sup>Dimensions and weight differ slightly if manufactured before March 2019. Contact Tesla for additional information.



#### ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-20°C to 50°C (-4°F to 122°F) <sup>5</sup>
Operating Humidity (RH)	Up to 100%, condensing
Storage Conditions	-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 Type	NEMA 3R
Ingress Rating	IP67 (Battery & Power Electronics) IP56 (Wiring Compartment)
Wet Location Rating	Yes
Noise Level @ 1m	< 40 dBA at 30°C (86°F)

<sup>5</sup>Performance may be de-rated at operating temperatures below 10°C (50°F) or greater than 43°C (109°F).

TESLA.COM/ENERGY

## Appendix 2

### POWERWALL Backup Gateway 2

The Backup Gateway 2 for Tesla Powerwall provides energy management and monitoring for solar self-consumption, time-based control, and backup.

The Backup Gateway 2 controls connection to the grid, automatically detecting outages and providing a seamless transition to backup power. When equipped with a main circuit breaker, the Backup Gateway 2 can be installed at the service entrance. When the optional internal panelboard is installed, the Backup Gateway 2 can also function as a load center.

The Backup Gateway 2 communicates directly with Powerwall, allowing you to monitor energy use and manage backup energy reserves from any mobile device with the Tesla app.



#### PERFORMANCE SPECIFICATIONS

Model Number	1232100-xx-y
AC Voltage (Nominal)	120/240V
Feed-In Type	Split Phase
Grid Frequency	60 Hz
Current Rating	200 A
Maximum Input Short Circuit Current	10 kA <sup>1</sup>
Overcurrent Protection Device	100-200A; Service Entrance Rated <sup>1</sup>
Overvoltage Category	Category IV
Internal Primary AC Meter	+/- 0.2 %
Internal Auxiliary AC Meter	+/- 2 %
Primary Connectivity	Ethernet, Wi-Fi
Secondary Connectivity	Cellular (3G, LTE/4G) <sup>2</sup>
User Interface	Tesla App
Operating Modes	Support for solar self-consumption, time-based control, and backup
Backup Transition	Automatic disconnect for seamless backup
Modularity	Supports up to 10 AC-coupled Powerwalls
Optional Internal Panelboard	200A 6-space / 12 circuit breakers Siemens QP or Square D HOM breakers rated 10 - 80A or Eaton BR breakers rated 10 - 125A
Warranty	10 years

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

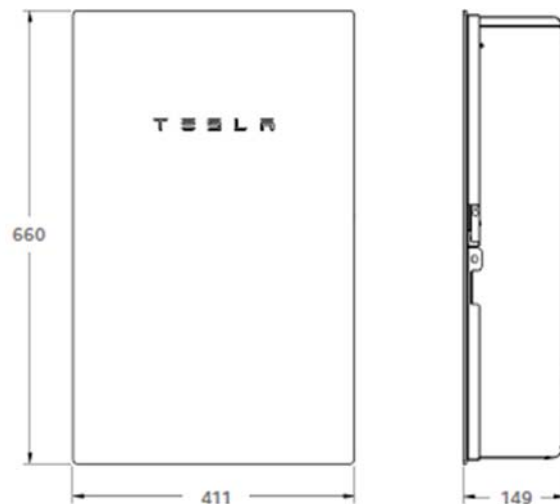
<sup>2</sup>The customer is expected to provide internet connectivity for Backup Gateway 2; cellular should not be used as the primary mode of connectivity. Cellular connectivity subject to network operator service coverage and signal strength.

#### COMPLIANCE INFORMATION

Certifications	UL 67, UL 869A, UL 916, UL 1741 PCS CSA 22.2 0.19, CSA 22.2 205
Emissions	FCC Part 15, Class B, ICES 003

#### MECHANICAL SPECIFICATIONS

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



#### ENVIRONMENTAL SPECIFICATIONS

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