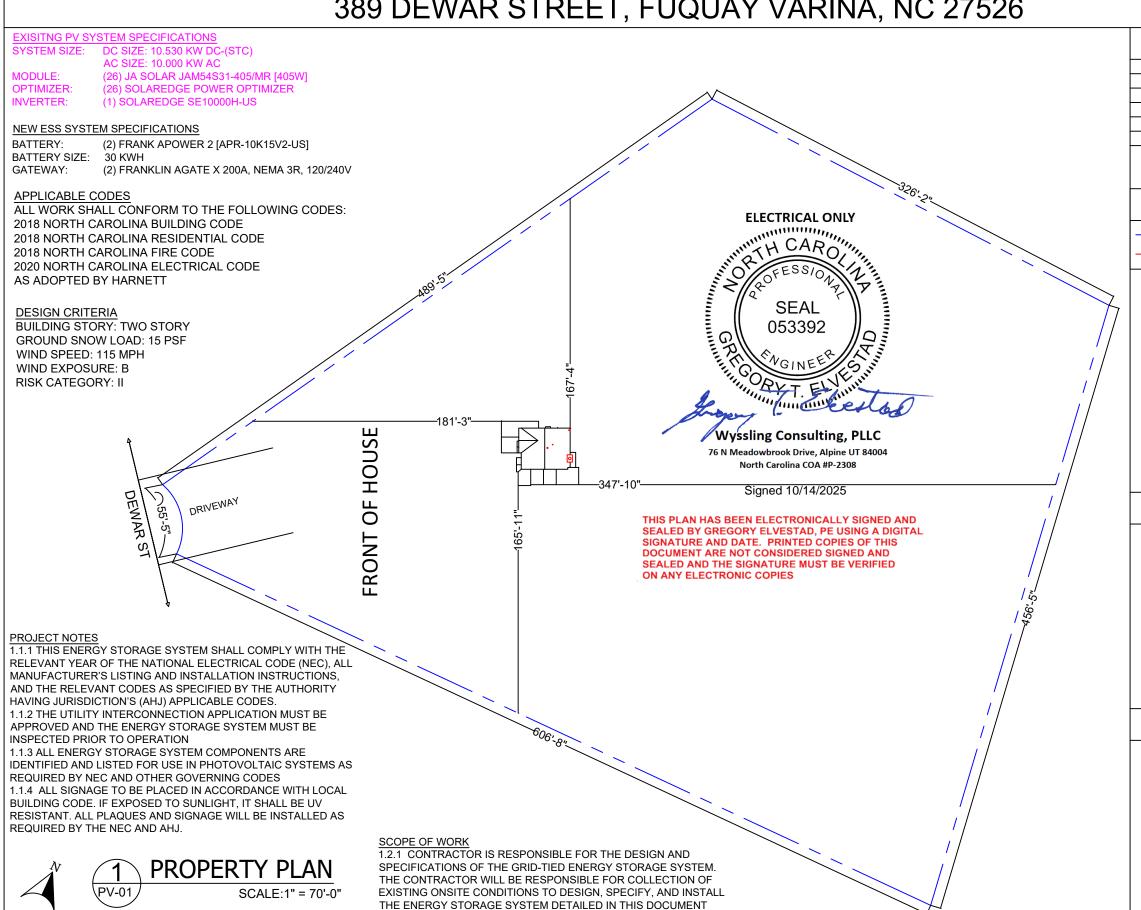
EXISITNG PHOTOVOLTAIC PITCHED ROOF MOUNTED SYSTEM - 10.530 KW DC/10.000 KW AC

& ENERGY STORAGE SYSTEM - 30 KWH 389 DEWAR STREET, FUQUAY VARINA, NC 27526



SHEET INDEX

PV-01	COVER PAGE	
PV-02	SITE PLAN	
PV-03	ELECTRICAL DIAGRAM	
PV-04	NOTES	
PV-05 WARNING LABELS		
EQUIPMENT DATASHEETS ATTACHED		

LEGEND

PROJECT NAME & ADDRESS DONNA JENKINS

CONTRACTOR

WIRING SOLUTIONS PLUS

389 DEWAR STREET, FUQUAY VARINA, NC 27526

APN #: 050624007517 AHJ: HARNETT UTILITY: DUKE ENERGY PROGRESS

SYSTEM DETAILS

(26) JA SOLAR JAM54S31-405/MR [405W]
(26) SOLAREDGE POWER OPTIMIZER
(1) SOLAREDGE SE10000H-US
(2) FRANK APOWER 2 [APR-10K15V2-US]
BATTERY SIZE: 30 KWH
(2) FRANKLIN AGATE X 200A, NEMA 3R, 120/240V

REVISIONS

REV	DESCRIPTION	DATE	

SHEET TITLE

COVER PAGE

DRAWN DATE	10/10/2025
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SHEET NUMBER

PV-01



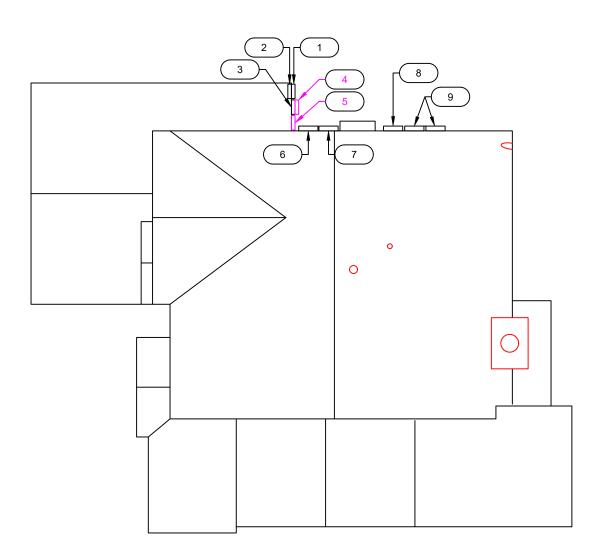


SATELLITE MAP



- ROOF ACCESS POINT SHALL NOT BE LOCATED IN AREAS THAT REQUIRE THE PLACEMENT OF GROUND LADDERS OVER OPENINGS SUCH AS WINDOWS OR DOORS, AND LOCATED AT STRONG POINTS OF **BUILDING CONSTRUCTION IN LOCATIONS** WHERE THE ACCESS POINT DOES NOT CONFLICT WITH OVERHEAD OBSTRUCTIONS SUCH AS TREE LIMBS, WIRES OR SIGNS.
- STRUCTURES, PATIO COVERS, AND/OR ADDITIONS BUILT WITHOUT PERMITS TO BE RESOLVED BY A SEPARATE PERMIT.

FRONT OF HOUSE





= MECHANICAL VENT

= FLUE / PLUMBING VENT

1 UTILITY METER

2) MAIN SERVICE PANEL

3 EMERGENCY DISCONNECT SWITCH

(E) AC DISCONNECT

(E) SOLAREDGE SE10000H-US INVERTER

6 (N) AC DISCONNECT

7) (N) FRANKLIN AGATE X 200A, NEMA 3R, 120/240V

8 (N) ESS COMBINER PANEL

8 (N) (2) FRANKLINWH APOWER 2 [APR-10K15V2-US]

PROJECT NAME & ADDRESS DONNA JENKINS

CONTRACTOR

WIRING SOLUTIONS PLUS

389 DEWAR STREET, FUQUAY VARINA, NC 27526

APN #: 050624007517 AHJ: HARNETT UTILITY: DUKE ENERGY **PROGRESS**

SYSTEM DETAILS

(2) FRANK APOWER 2 [APR-10K15V2-US] BATTERY SIZE: 30 KWH (2) FRANKLIN AGATE X 200A, NEMA 3R, 120/240V

REVISIONS REV DESCRIPTION DATE

SHEET TITLE

SITE PLAN

DRAWN DATE 10/10/2025 DRAWN BY OFM

SHEET NUMBER

PV-02

ELECTRICAL ONLY

Wyssling Consulting, PLLC 76 N Meadowbrook Drive, Alpine UT 84004

North Carolina COA #P-2308

053392

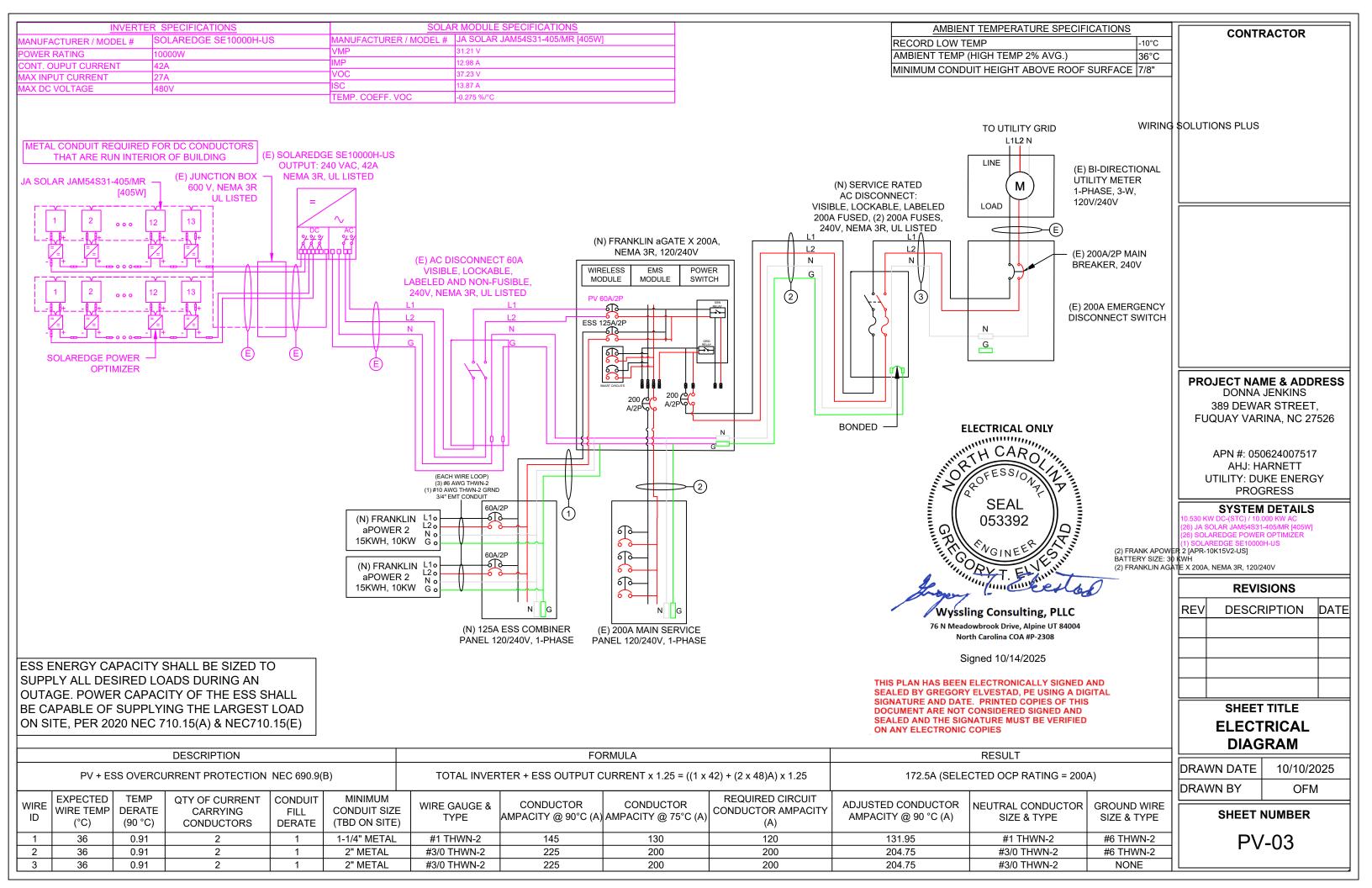
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GENERAL NOTES

SITE NOTES

- 2.1.1 A LADDER WILL BE IN PLACE FOR INSPECTION IN ACCORDANCE WITH OSHA REGULATIONS.
- 2.1.2 THE PV MODULES ARE CONSIDERED NON-COMBUSTIBLE AND THIS SYSTEM IS A UTILITY INTERACTIVE SYSTEM WITH STORAGE BATTERIES.
- 2.1.3 THE SOLAR PV INSTALLATION WILL NOT OBSTRUCT ANY PLUMBING, MECHANICAL, OR BUILDING ROOF VENTS.
- 2.1.4 PROPER ACCESS AND WORKING CLEARANCE AROUND EXISTING AND PROPOSED ELECTRICAL EQUIPMENT WILL BE PROVIDED IN ACCORDANCE WITH SECTION NEC 110.
- 2.1.5 ROOF COVERINGS SHALL BE DESIGNED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH THIS CODE AND THE APPROVED MANUFACTURER'S INSTRUCTIONS SUCH THAT THE ROOF COVERING SERVES TO PROTECT THE BUILDING OR STRUCTURE.

EQUIPMENT LOCATIONS

- 2.2.1 ALL EQUIPMENT SHALL MEET MINIMUM WORKING CLEARANCES IN ACCORDANCE WITH NEC 110.
- 2.2.2 WIRING SYSTEMS INSTALLED IN DIRECT SUNLIGHT MUST BE RATED FOR EXPECTED OPERATING TEMPERATURE AS SPECIFIED BY 2020 NORTH CAROLINA ELECTRICAL CODE.
- 2.2.3 JUNCTION AND PULL BOXES PERMITTED INSTALLED UNDER PV MODULES IN ACCORDANCE WITH NEC 690.
- 2.2.4 ALL EQUIPMENT SHALL BE INSTALLED ACCESSIBLE TO QUALIFIED PERSONNEL IN ACCORDANCE WITH NEC APPLICABLE CODES.
 2.2.5 ALL COMPONENTS ARE LISTED FOR THEIR PURPOSE AND RATED FOR OUTDOOR USAGE WHEN APPROPRIATE.

STRUCTURAL NOTES

- 2.3.1 RACKING SYSTEM & PV ARRAY WILL BE INSTALLED IN ACCORDANCE WITH THE CODE-COMPLIANT INSTALLATION MANUAL. TOP CLAMPS REQUIRE A DESIGNATED SPACE BETWEEN MODULES, AND RAILS MUST ALSO EXTEND A MINIMUM DISTANCE BEYOND EITHER EDGE OF THE ARRAY/SUB-ARRAY, IN ACCORDANCE WITH RAIL MANUFACTURER'S INSTALLATION PRACTICES.
- 2.3.2 JUNCTION BOX WILL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. IF ROOF-PENETRATING TYPE, IT SHALL BE FLASHED & SEALED PER LOCAL REQUIREMENTS.
- 2.3.3 ROOFTOP PENETRATIONS FOR PV RACEWAY WILL BE COMPLETED AND SEALED W/ APPROVED CHEMICAL SEALANT PER CODE BY A LICENSED CONTRACTOR.
- 2.3.4 ALL PV RELATED ROOF ATTACHMENTS TO BE SPACED NO GREATER THAN THE SPAN DISTANCE SPECIFIED BY THE RACKING MANUFACTURER OR PROFESSIONAL ENGINEERING GUIDANCE.
 2.3.5 WHEN POSSIBLE, ALL PV RELATED RACKING ATTACHMENTS WILL BE STAGGERED AMONGST THE ROOF FRAMING MEMBERS.

WIRING & CONDUIT NOTES

- 2.4.1 ALL CONDUIT AND WIRE WILL BE LISTED AND APPROVED FOR THEIR PURPOSE. CONDUIT AND WIRE SPECIFICATIONS ARE BASED ON MINIMUM CODE REQUIREMENTS AND ARE NOT MEANT TO LIMIT UP-SIZING.
- 2.4.2 CONDUCTORS SIZED IN ACCORDANCE WITH THE NEC
 2.4.3 AC CONDUCTORS TO BE COLORED OR MARKED PER NEC
 2.4.4 LISTED OR LABELED EQUIPMENT SHALL BE INSTALLED AND USED IN ACCORDANCE WITH ANY INSTRUCTIONS INCLUDED IN THE LISTING OR LABELING PER NEC

GROUNDING NOTES

- 2.5.1 GROUNDING SYSTEM COMPONENTS SHALL BE LISTED FOR THEIR PURPOSE, AND GROUNDING DEVICES EXPOSED TO THE ELEMENTS SHALL BE RATED FOR SUCH USE.
- 2.5.2 PV EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH NEC 690 AND NEC TABLE 250.122.
- 2.5.3 METAL PARTS OF MODULE FRAMES, MODULE RACKING, AND ENCLOSURES CONSIDERED GROUNDED IN ACCORDANCE WITH NEC 250.
- 2.5.4 EQUIPMENT GROUNDING CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH NEC 690 AND INVERTER MANUFACTURER'S INSTALLATION PRACTICES
 2.5.5 EACH MODULE WILL BE GROUNDED AS SHOWN IN MANUFACTURER DOCUMENTATION AND APPROVED BY THE AHJ.
- 2.5.6 THE GROUNDING CONNECTION TO A MODULE SHALL BE ARRANGED SUCH THAT THE REMOVAL OF A MODULE DOES NOT INTERRUPT A GROUNDING CONDUCTOR TO ANOTHER MODULE.
- 2.5.7 GROUNDING AND BONDING CONDUCTORS, IF INSULATED, SHALL BE COLORED GREEN OR MARKED GREEN IF #4 AWG OR LARGER PER NEC 250.
- 2.5.8 THE GROUNDING ELECTRODE SYSTEM COMPLIES WITH NEC 690 AND NEC 250. IF EXISTING SYSTEM IS INACCESSIBLE, OR INADEQUATE, A GROUNDING ELECTRODE SYSTEM PROVIDED IN ACCORDANCE WITH NEC 250, NEC 690 AND THE AHJ.
- 2.5.9 GROUND-FAULT DETECTION SHALL COMPLY WITH NEC 690 TO REDUCE FIRE HAZARDS

DISCONNECTION AND OVERCURRENT PROTECTION NOTES

- 2.6.1 DISCONNECTING SWITCHES SHALL BE WIRED SUCH THAT WHEN THE SWITCH IS OPENED THE CONDUCTORS REMAINING ENERGIZED ARE CONNECTED TO THE TERMINALS MARKED "LINE SIDE" (TYPICALLY THE UPPER TERMINALS).
- 2.6.2 DISCONNECTS TO BE ACCESSIBLE TO QUALIFIED UTILITY PERSONNEL, BE LOCKABLE, AND BE A VISIBLE-BREAK SWITCH 2.6.3 PV SYSTEM CIRCUITS INSTALLED ON OR IN HABITABLE BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION TO REDUCE SHOCK HAZARD FOR EMERGENCY RESPONDERS IN ACCORDANCE WITH 690.
- 2.6.4 ALL OCPD RATINGS AND TYPES SPECIFIED ACCORDING TO NEC 690 AND 240.
- 2.6.5 INVERTER ON-GRID BRANCHES SHALL BE CONNECTED TO A SINGLE BREAKER OR GROUPED FUSE DISCONNECT(S) IN ACCORDANCE WITH NEC 110.
- 2.6.6 IF REQUIRED BY THE AHJ, SYSTEM WILL INCLUDE ARC-FAULT CIRCUIT PROTECTION IN ACCORDANCE WITH NEC 690 AND UL1699B.

INTERCONNECTION NOTES

- 2.7.1 LOAD SIDE INTERCONNECTION SHALL BE IN ACCORDANCE WITH NEC 705.
- 2.7.2 THE SUM OF THE UTILITY OCPD AND INVERTER CONTINUOUS OUTPUT MAY NOT EXCEED 120 PERCENT OF BUSBAR RATING PER NEC 705.
- 2.7.3 THE SUM OF 125 PERCENT OF THE POWER SOURCE(S) OUTPUT CIRCUIT CURRENT AND THE RATING OF THE OVERCURRENT DEVICE PROTECTING THE BUSBAR SHALL NOT EXCEED 120 PERCENT OF THE AMPACITY OF THE BUSBAR, PV DEDICATED BACKFEED BREAKERS MUST BE LOCATED OPPOSITE END OF THE BUS FROM THE UTILITY SOURCE OCPD PER NEC 705.
- 2.7.4 AT MULTIPLE ELECTRIC POWER SOURCES OUTPUT COMBINER PANEL, TOTAL RATING OF ALL OVERCURRENT PROTECTION DEVICES SHALL NOT EXCEED AMPACITY OF BUSBAR. HOWEVER, THE MAIN OVERCURRENT PROTECTION DEVICE MAY BE EXCLUDED IN ACCORDANCE WITH NEC 705.
 2.7.5 FEEDER TAP INTERCONNECTION (LOAD SIDE) IN ACCORDANCE WITH NEC 705.
- 2.7.6 SUPPLY SIDE TAP INTERCONNECTION IN ACCORDANCE WITH TO NEC 705 WITH SERVICE ENTRANCE CONDUCTORS IN ACCORDANCE WITH NEC 230.
- 2.7.7 BACKFEEDING BREAKER FOR ELECTRIC POWER SOURCES OUTPUT IS EXEMPT FROM ADDITIONAL FASTENING PER NEC 705.



76 N Meadowbrook Drive, Alpine UT 84004 North Carolina COA #P-2308

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CONTRACTOR

WIRING SOLUTIONS PLUS

PROJECT NAME & ADDRESS DONNA JENKINS 389 DEWAR STREET, FUQUAY VARINA, NC 27526

APN #: 050624007517 AHJ: HARNETT UTILITY: DUKE ENERGY PROGRESS

SYSTEM DETAILS

(26) JA SOLAR JAM54S31-405/MR [405W]
(26) SOLAREDGE POWER OPTIMIZER
(1) SOLAREDGE SE10000H-US
(2) FRANK APOWER 2 [APR-10K15V2-US]
BATTERY SIZE: 30 KWH
(2) FRANKLIN AGATE X 200A, NEMA 3R, 120/240V

REVISIONS			
REV	DESCRIPTION	DATE	

SHEET TITLE

NOTES

DRAWN DATE 10/10/2025
DRAWN BY OFM

SHEET NUMBER

PV-04



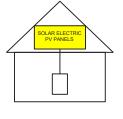
SOURCES: UTILITY GRID AND PV SOLAR ELECTRIC SYSTEM

PHOTOVOLTAIC SYSTEM AC DISCONNECT RATED AC OUTPUT CURRENT: 42.00 A NOMINAL OPERATING AC VOLTAGE: 240 V

LABEL LOCATION: AC DISCONNECT/POINT OF INTERCONNECTION PER CODE: NEC 690.54

3 SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

TURN RAPID SHUTDOWN
SWITCH TO THE
"OFF" POSITION TO
SHUT DOWN PV SYSTEM
AND REDUCE
SHOCK HAZARD
IN THE ARRAY



LABEL LOCATION: MAIN SERVICE DISCONNECT PER CODE: NEC 690.56(C)

WARNING:
PHOTOVOLTAIC POWER SOURCE

5 PV SOLAR BREAKER
DO NOT RELOCATE THIS
OVERCURRENT DEVICE

6 AWARNING

TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION 7 WARNING!
INVERTER OUTPUT CONNECTION.
DO NOT RELOCATE THIS OVERCURRENT DEVICE

PV LOAD CENTER SIZED FOR PV
BREAKERS ONLY OR RENDERED UNABLE
TO ACCEPT ANY ADDITIONAL LOADS.

(9)

MAXIMUM VOLTAGE:

MAXIMUM CIRCUIT CURRENT:

MAX RATED OUTPUT CURRENT OF

THE CHARGE CONTROLLER OR

DC-TO-DC CONVERTER

(IF INSTALLED):

480 VDC

27 ADC

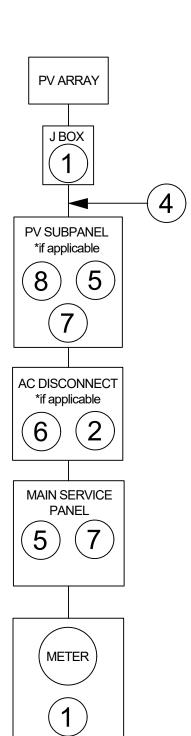
15 ADC

SEAL 053392 SEAL 053392

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North Carolina COA #P-2308

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CONTRACTOR

WIRING SOLUTIONS PLUS

PROJECT NAME & ADDRESS DONNA JENKINS 389 DEWAR STREET, FUQUAY VARINA, NC 27526

APN #: 050624007517 AHJ: HARNETT UTILITY: DUKE ENERGY PROGRESS

SYSTEM DETAILS

(26) SOLAREDGE POWER OPTIMIZER
(1) SOLAREDGE SE10000H-US
(2) FRANK APOWER 2 [APR-10K15V2-US]
BATTERY SIZE: 30 KWH
(2) FRANKLIN AGATE X 200A, NEMA 3R, 120/240V

REVISIONS

REV DESCRIPTION DATE

SHEET TITLE
WARNING LABELS

DRAWN DATE 10/10/2025
DRAWN BY OFM

SHEET NUMBER

PV-05

FRANKLINWH

aPower 2

AC-coupled battery

Store solar generated power while the sun is shining. Use the stored energy when needed to lower electric bills. Run heavy loads such as air conditioners and water heaters as usual even during grid outages. Provide homeowner peace of mind by fully charging before severe weather events.

The system is off-grid ready, designed to operate independently from the main power grid to deliver reliable energy in any situation.

- ✓ 10 kW continuous / 15 kW peak for 10s
- ✓ 8 kW charge power
- ✓ 15 kWh AC¹ per unit, up to 225 kWh (15 units) per aGate
- ✓ 60 MWh warranty throughput



PERFORMANCE SPECIFICATIONS

SKU				APR-10k	<15V2-US
Model Number					aPower 2
Nameplate / Certification				aPo	wer X-20
CEC Listing Name				aPo	wer Xyyy
Battery Chemistry		L	ithium Iro	n Phosph	ate (LFP)
Usable System Energy	15 kWh	AC¹ per u	ınit, up to	15 units	per aGate
Aggregate Throughput					60 MWh
Real Power (charge)				8 kW co	ontinuous
Nominal Output Power (AC)	2.5 kW	5 kW	6.7 kW	8.4 kW	10 kW ²
Maximum Apparent Power	2.9 kVA	5.8 kVA	7.7 kVA	9.6 kVA	11.5 kVA
Maximum Continuous Current	12 A	24 A	32 A	40 A	48 A
Nominal AC Voltage	120 / 24	0 V, 120 /	208 V (si	ingle phas	se), 60 Hz
Coupling				AC	-coupled
Phase				2	W+N+PE
Round Trip Efficiency					90%1
Maximum Short-Circuit Current Rati	ing				10 kA
Load Start Capability		l	Jp to a 5-	ton air co	nditioner
Work Modes				Self-Cons Tin Emergenc	ne of Use
Noise Emission	3	30 dB(A) 1	ypical / 4	45 dB(A) N	Maximum
Flood Resistance		Up to	29" from	the aPow	er 2 base
User Interface				Frankli	nWH App
Warranty					15 years ³

COMPLIANCE INFORMATION

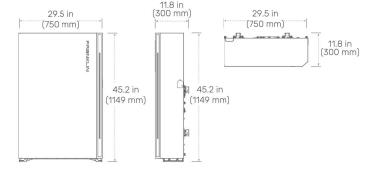
Certifications	UL 9540, UL 9540A, UL 1973, UL 1741, UL1741 SB, UI 1741 PCS, UL 60730-1, IEEE 1547, IEEE 1547.1, UN 38.3 CSA C22.2 No. 107.
Seismic	AC 156, OSHPD, IEEE 693-2005 (high
Environmental	California Proposition 69 RoHS Directive 2011 / EL
Emissions	FCC Part 15 Class B, ICES 003

- At beginning of life, 3 kW charge/discharge power, 77 °F (25 °C).
 Refer to the installation manual and commissioning guide for proper wire and OCPD sizes.
- For more details, please refer to the FranklinWH System Limited Warranty for End Users available in the Documentation Center on the FranklinWH website.

WWW.FRANKLINWH.COM

MECHANICAL SPECIFICATIONS

$45.2 \text{ in} \times 29.5 \text{ in} \times 11.8 \text{ in}$ (1149 mm × 750 mm × 300 mm)	
357 lb. (162 kg)	
335 lb. (152 kg)	
22 lb. (10 kg)	
Wall or floor mount	
Natural air-cooled design	



ENVIRONMENTAL SPECIFICATIONS

Enclosure Type	Type 3R
Ingress Protection	IP56 (Wiring) IP67 (Battery Pack & Inverter)
Operating Temperature	$-4~^{\circ}\text{F}$ to 122 $^{\circ}\text{F}$ (-20 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$) Operates up to 131 $^{\circ}\text{F}$ (55 $^{\circ}\text{C}$) at 5kW derated output
Operating Humidity (RH)	Up to 100% RH, condensing
Altitude	Maximum 9,843 ft (3,000 m)
Environment	Indoor and outdoor rated

Compatibility Notice: At launch, the aPower 2 is compatible with the aGate 1.3 only. Compatibility with earlier aGate and aPower versions is anticipated in Q2 2025.

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FRANKLINWH

aGate

Intelligent energy management system

The aGate serves as the controller for all home power sources by interconnecting solar, grid, batteries, and a standby generator to supply electricity to the home. It seamlessly transitions the home supply from grid power to backup power so that always-on appliances, such as the refrigerator and network router, will not be affected when the grid goes down.

The aGate can be installed at the service entrance, connected to the main load center, or used as a load center.





Robust

- ✓ Micro-grid interconnect device (MID)
- ✓ EMS Integrated PV and grid metering
- ✓ UL1741 certified PCS function & 280A busbar to avoid Main Panel Upgrades
- ✓ 12-year limited warranty



Flexible

- ✓ Compatible with micro and string solar inverter
- ✓ Indoor and outdoor / wall-mounted



Hassle-free

- Precise control of electricity usage through Smart Circuits Module
- ✓ Standby generator integration via generator module
- ✓ Remarkable black start function ensures battery charge after a prolonged outage or extended trip
- ✓ Vehicle to loads (V2L) function to power essential home appliances during an emergency
- ✓ Commissioning through the aGate Wifi hotspot or Bluetooth



Easy installation

- ✓ Built-in design Smart Circuits and Generator Modules
- Conduit entry options from the bottom, left, or right







DATASHEET

PERFORMANCE SPECIFICATIONS

Model Number	aGate X	
Coupling	AC-coupled	
Nominal AC Voltage	120 / 208 V, 120 / 240 V, 60 Hz	
Phase	2 W+N+PE	
aPower Over Current Protection Dev	rice 125 A Max	
Solar Input Over Current Protection I	Device 80 A Max	
Backup Load Port Over Current Prote	ection Device 200 A Max	
Generator Over Current Protection D	Device ¹ 200 A Max	
Smart Circuits Over Current	Opt. a 1 × 80 A Max @ 208 V / 240 V & 1 × 50 A Max @ 208 V / 240 V	
Protection Device ²	Opt. b 1 × 80 A Max @ 208 V / 240 V & 2 × 50 A Max @ 120 V	
Maximum Supply Fault Current	22 kA	
Busbar Rating		
Work Modes	Self-Consumption, Time of Use, Emergency Backup	
Communications	Ethernet / 4G / Wifi /Bluetooth	
User Interface FranklinWH		
Warranty 12-year lin		

MECHANICAL SPECIFICATIONS

Dimensions (H × W × D)	31.5 in × 21.7 in × 6.3 in (800 mm × 550 mm × 160 mm)
Weight	38.6 lb (17.5 kg)
Mounting	Wall mount
21.7 in (550 mm) 31.5 in (800 mm	6.3 in (160 mm) 21.7 in (550 mm) (160 mm) 31.5 in (800 mm)

COMPLIANCE INFORMATION

Certifications	UL 1741, UL 1741 PCS, UL 67, UL 869A, UL 916, CAN / CSA C22.2 No. 107.1-16, CSA C22.2 No. 29, CSA C22.2 No. 0.19
Seismic	AC 156, OSHPD, IEEE 693-2005 (high)
Environmental	California Proposition 65 RoHS Directive 2011 / EU
Emissions	ECC Part 15 Class B. ICES 003

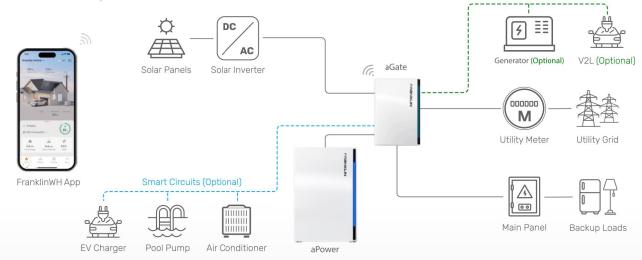
ENVIRONMENTAL SPECIFICATIONS

2. Smart Circuit Module is optional

Enclosure Type	NEMA 3R		
Operating Temperature	-4°F to 122°F (-20°C to 50°C)		
Operating Humidity (RH)	Up to 100% RH, condensing		
Altitude	Maximum 9,843 ft (3,000 m)		
Environment	Indoor and outdoor rated		

Franklin Home Power Solution

Whole Home Backup



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