



Merrick Buffaloe
220 Davinhall Dr Fuquay-Varina, NC 27526

Project Information

Work Type	Install	Customer/Homeowner Email
Property Address	220 Davinhall Dr Fuquay-Varina, NC 27526	Was Rejected? For LightReach use only
Permitted City, State, Zip		If yes, provide details
Customer/Homeowner Name	Merrick Buffaloe	Rejected Details Reviewed and Accepted
Customer/Homeowner Phone		

Site Info

Is this a Manufactured home?

Inspection Corrections

Revisit/Corrections

Pre-Existing Damage & Conditions

Click the button below to add a Pre-Existing Damage or Condition

Any pre-existing damage or conditions should also be documented, such as broken vent boot flashing, chimney cracks or leaks, altered satellite dishes, gutters, torn or missing shingles, shingle cap damage, and generally anything that could potentially be a workmanship liability in the project work area.

Documentation helps reduce unnecessary service evaluations

Roof Photos

Array

Array #

1

Roof Photos / Close up of attachment – Sealed & installed



Internal Installers

Roof Photos / Photo: Splice Bar



Internal Installers

Roof Photos / Photo: Splice Bar



Internal Installers

Roof Photos / Photo: Mid Clamp



Internal Installers

Roof Photos / Photo: Mid Clamp



Internal Installers

Roof Photos / Photo: End Clamp



Internal Installers

Roof Photos / Photo: End Clamp



Internal Installers

Roof Photos / Photo: End Clamp



Internal Installers

Roof Photos / Photo: Rail End



Internal Installers

Roof Photos / Photo: MLPE Front & Back



Internal Installers

Roof Photos / Photo: MLPE Front & Back



Internal Installers

Roof Photos / Array 1 / Rail with Optos/Micros + EGC installed + Wire management



Internal Installers

Roof Photos / Array 1 / Rail with Optos/Micros + EGC installed + Wire management



Internal Installers

Roof Photos / Array 1 / Rail with Optos/Micros + EGC installed + Wire management



Internal Installers

Roof Photos / Array 1 / Rail with Optos/Micros + EGC installed + Wire management



Internal Installers

Roof Photos / Array 1 / Complete Array with all modules visible + Rail trimmed



Internal Installers

Roof Photos / Array 1 / Complete Array with all modules visible + Rail trimmed



Internal Installers

Roof Photos / Array 1 / Under Array photo - post module installation



Internal Installers

Roof Photos / Array 1 / Under Array photo - post module installation



Internal Installers

Roof Photos / Array 1 / Under Array photo - post module installation



Internal Installers

Roof Photos / Array 1 / Under Array photo - post module installation



Internal Installers

Roof Photos / Array 1 / Under Array photo - post module installation



Internal Installers

Roof Photos / Array 1 / Under Array photo - post module installation



Internal Installers

Roof Photos / Array 1 / Tilt - measured on array



Internal Installers

Roof Photos / Array 1 / Tilt - measured on array



Internal Installers

Roof Photos / Array 1 / Junction box - Internal wiring including terminations, bonding & grounding



Internal Installers

Roof Photos / Array 1 / Junction box - Internal wiring including terminations, bonding & grounding



Internal Installers

Roof Photos / Array 1 / Junction box - Internal wiring including terminations, bonding & grounding



Internal Installers

Roof Photos / Array 1 / Junction box - Internal wiring including terminations, bonding & grounding



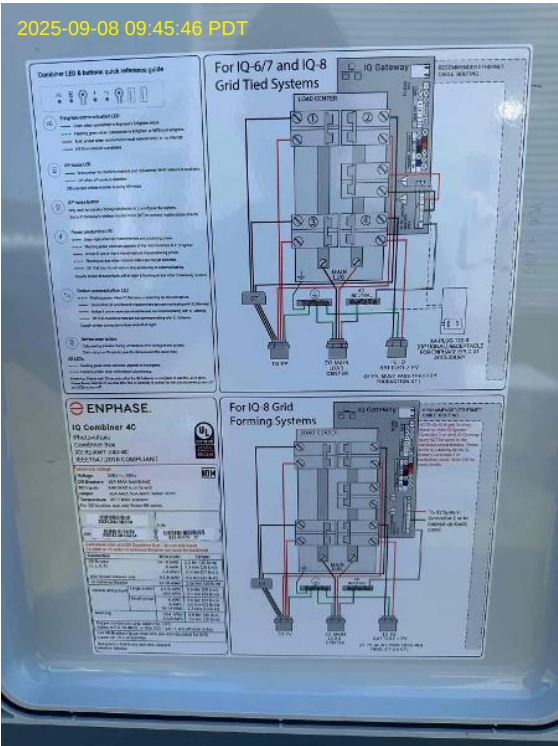
Internal Installers

Electrical photos

Inverter

Inverter or IQ Combiner #

Electrical photos / Inverter / Inverter(s) or Q combiner wiring



Internal Installers

Electrical photos / Inverter / Inverter(s) or Q combiner wiring



Internal Installers



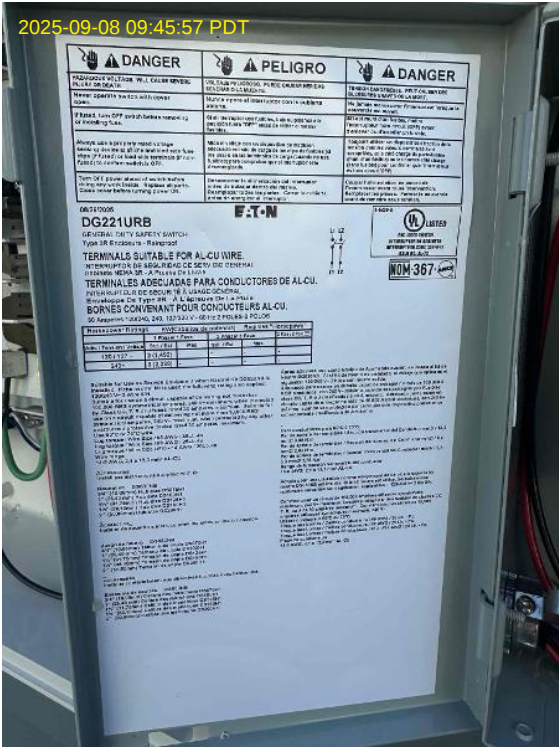
Internal Installers



Internal Installers



Internal Installers



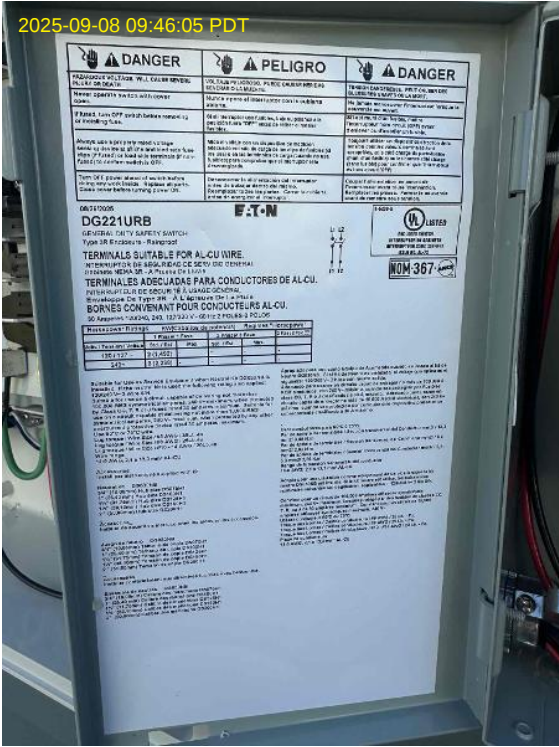
Internal Installers

Electrical photos / AC Disconnects (if Fused) - Interior wiring and terminations Pull back



Internal Installers

Electrical photos / Switches/Fuses/Disconnects - close up of rating



Internal Installers

Electrical photos / Main Breaker rating



Internal Installers

Electrical photos / Busbar rating - Panel label with busbar rating clearly legible



Internal Installers

Electrical photos / Point of Interconnection - Pull back



Internal Installers

Electrical photos / Point of Interconnection - Pull back



Internal Installers

Electrical photos / Point of Interconnection - Pull back



Internal Installers

Electrical photos / Point of Interconnection - Pull back



Internal Installers

Electrical photos / Point of Interconnection - Close up



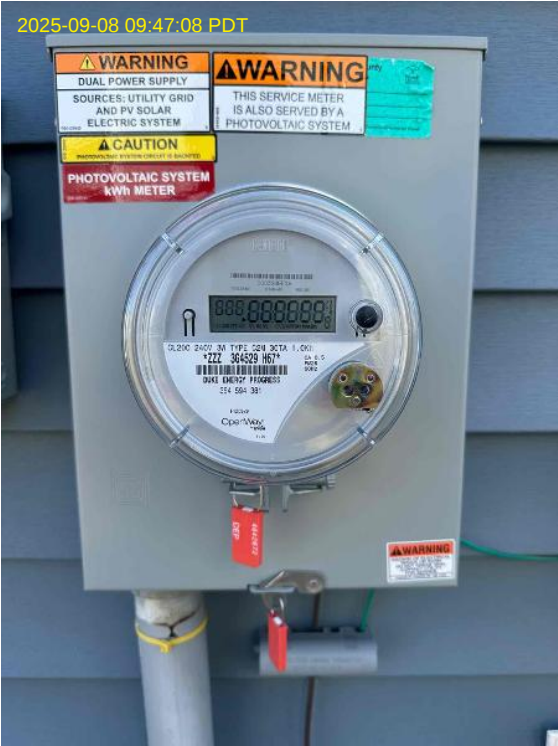
Internal Installers

Electrical photos / Point of Interconnection - Close up



Internal Installers

Electrical photos / Pull back of BOS



Internal Installers

Electrical photos / Pull back of BOS



Internal Installers

Electrical photos / Pull back of BOS



Internal Installers

Electrical photos / Pull back of BOS



Internal Installers

Electrical photos / Pull back of BOS



Internal Installers
Loc: 35.4713, -78.8128

Electrical photos / Pull back of BOS



Internal Installers
Loc: 35.471, -78.8129

Electrical photos / Pull back of BOS



Internal Installers
Loc: 35.4712, -78.813

Electrical photos / Pull back of BOS



Internal Installers
Loc: 35.4711, -78.8127

Electrical photos / Pull back of BOS



Internal Installers
Loc: 35.4712, -78.813

Electrical photos / Pull back of BOS



Internal Installers
Loc: 35.4711, -78.8129



Internal Installers
Loc: 35.471, -78.8127

Component Identification

Component Identification / Optimizers/Micro Inverters/Inverter label



Internal Installers

Component Identification / Optimizers/Micro Inverters/Inverter label



Internal Installers

Component Identification / Optimizers/Micro Inverters/Inverter label



Internal Installers

Component Identification / Photo of PV module in Front of Address



Internal Installers

Component Identification / Photo of PV module in Front of Address



Internal Installers

Component Identification / PV Module data label - Pull back of panel label on site



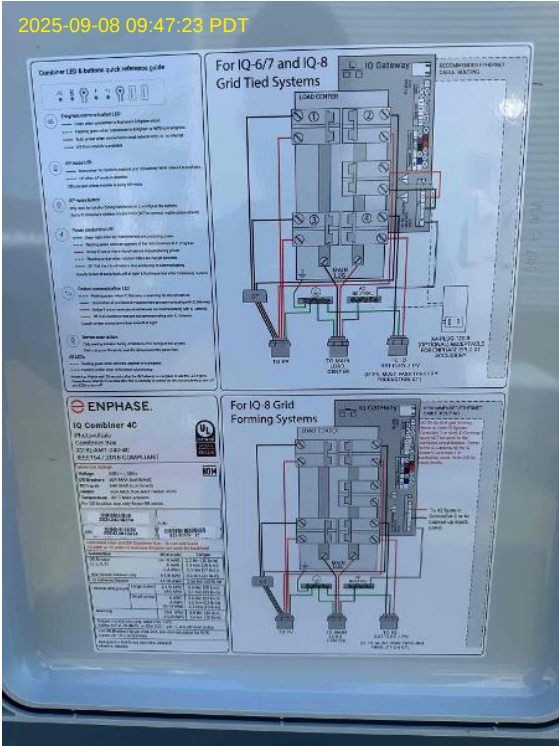
Internal Installers

Component Identification / PV Module data label - Pull back of panel label on site



Internal Installers

Component Identification / Inverter/IQ Combiner(envoy) Serial



Internal Installers



Internal Installers



Internal Installers

Pre-Construction Work

Additional Mounting Systems

Batteries

Commissioning

Commissioning / Commissioning - Tesla screenshots showing fully operational system with all devices paired

2023-09-08 09:47:40 PDT

5. Validation

Summary Report

Time left ~2 mins

Share or download report

IQ Gateway Communications Report

20240908 09:47:40

System

Site Name

Site Address

City

State

Zip

Country

IQ Gateway

Serial Number

Software Version

Stage

Production Meter

Consumption Meter

Rate Meter

Connection to Inverter Cloud

Last report to Inverter Cloud

Grid Profile

18 IQ Microinverters

18 IQ Microinverters IQMIC

Serial Number	Last report	Power	Grid Profile	Flattest Variable
2024090801	08 Sep 2023 09:47:40	0.00	0.00	0.00
2024090802	08 Sep 2023 09:47:40	0.00	0.00	0.00
2024090803	08 Sep 2023 09:47:40	0.00	0.00	0.00
2024090804	08 Sep 2023 09:47:40	0.00	0.00	0.00
2024090805	08 Sep 2023 09:47:40	0.00	0.00	0.00
2024090806	08 Sep 2023 09:47:40	0.00	0.00	0.00
2024090807	08 Sep 2023 09:47:40	0.00	0.00	0.00
2024090808	08 Sep 2023 09:47:40	0.00	0.00	0.00
2024090809	08 Sep 2023 09:47:40	0.00	0.00	0.00
2024090810	08 Sep 2023 09:47:40	0.00	0.00	0.00
2024090811	08 Sep 2023 09:47:40	0.00	0.00	0.00
2024090812	08 Sep 2023 09:47:40	0.00	0.00	0.00
2024090813	08 Sep 2023 09:47:40	0.00	0.00	0.00
2024090814	08 Sep 2023 09:47:40	0.00	0.00	0.00
2024090815	08 Sep 2023 09:47:40	0.00	0.00	0.00
2024090816	08 Sep 2023 09:47:40	0.00	0.00	0.00
2024090817	08 Sep 2023 09:47:40	0.00	0.00	0.00
2024090818	08 Sep 2023 09:47:40	0.00	0.00	0.00

Next step: Post Commissioning

IQ Gateway: 2024010314

Internal Installers

Commissioning / Commissioning - Tesla screenshots showing fully operational system with all devices paired

2023-09-08 09:47:41 PDT

Step 5 of 6: Validation

Set Up Consumption Meter

Time left ~3 mins

Consumption meter enabled successfully

Congratulations

Commissioning process is complete

Next: Post Commissioning Checks

IQ Gateway: 2024010314

Internal Installers

Commissioning / Commissioning - Tesla screenshots showing fully operational system with all devices paired

2023-09-08 09:47:40 PDT

5. Validation

Summary Report

Time left ~2 mins

Share or download report

IQ Gateway Communications Report

20240908 09:47:40

System

Site Name

Site Address

City

State

Zip

Country

IQ Gateway

Serial Number

Software Version

Stage

Production Meter

Consumption Meter

Rate Meter

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Last report to Inverter Cloud

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18 IQ Microinverters

18 IQ Microinverters IQMIC

Serial Number	Last report	Power	Grid Profile	Flattest Variable
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2024090808	08 Sep 2023 09:47:40	0.00	0.00	0.00
2024090809	08 Sep 2023 09:47:40	0.00	0.00	0.00
2024090810	08 Sep 2023 09:47:40	0.00	0.00	0.00
2024090811	08 Sep 2023 09:47:40	0.00	0.00	0.00
2024090812	08 Sep 2023 09:47:40	0.00	0.00	0.00
2024090813	08 Sep 2023 09:47:40	0.00	0.00	0.00
2024090814	08 Sep 2023 09:47:40	0.00	0.00	0.00
2024090815	08 Sep 2023 09:47:40	0.00	0.00	0.00
2024090816	08 Sep 2023 09:47:40	0.00	0.00	0.00
2024090817	08 Sep 2023 09:47:40	0.00	0.00	0.00
2024090818	08 Sep 2023 09:47:40	0.00	0.00	0.00

Next step: Post Commissioning

IQ Gateway: 2024010314

Internal Installers

Commissioning / Commissioning - Tesla screenshots showing fully operational system with all devices paired

2023-09-08 09:47:41 PDT

Step 2 of 6: Devices and Configuration

Device Details

Time left ~3 mins

All devices are scanned

Total device count: 19

Edit device count

IQ Gateway

2024010314

IQ Microinverter & Array

Scanned 18/18

Provisioned 18/18

Detected 18/18

Communicating 18/18

Array created 0

Producing power 18/18

Profile set 18/18

Next: Site Configuration

IQ Gateway: 2024010314

Internal Installers

Commissioning / Commissioning - Tesla screenshots showing fully operational system with all devices paired

2022-09-08 09:47:41 PDT

Step 5 of 6: Validation

Meter Configuration

5

Time left ~3 mins

All meters communicating normally

Production Meter

Active Power2.85 kW

Apparent Power3.20 kVA

Selected PhaseL1(A) + L2(B)

Consumption Meter

Active Power2.01 kW (Exporting to Grid)

Apparent Power2.34 kVA

Selected PhaseL1(A) + L2(B)

Meter LocationLoad with Solar

Verify Production and Consumption CT

View Advanced Readings

Next: Generate Summary Report

IQ Gateway: 202424010314

Internal Installers

Commissioning / Commissioning - Tesla screenshots showing fully operational system with all devices paired

2022-09-08 09:47:41 PDT

Step 4 of 6: Provision

Provisioning Devices

4

Time left ~15 mins

Provisioning complete. Proceed to next step

Grid Profile (IEEE 1547 default 2015 (1.0.11))Updated

IQ Microinverters Sent to Gateway (18/18)

View Details

Next step: Validation

IQ Gateway: 202424010314

Internal Installers

Commissioning / Commissioning - Tesla screenshots showing fully operational system with all devices paired

2022-09-08 09:47:41 PDT

Step 5 of 6: Validation

Set Up Consumption Meter

5

Time left ~13 mins

Switching ON the PV breakers should reduce the import from grid

Exporting Decreased by 2.47 kW

Producing Increased by 2.48 kW

1.64 kW

2.48 kW

L1(A) 603 W

L2(B) 1.0 kW

L3(C) 0 W

L1(A) 1.2 kW

L2(B) 1.2 kW

L3(C) 0 W

View Advanced Readings

Close Live Status

2868 W Producing

Switch ON the PV breaker(s) and wait until the PV starts producing power, then tap Next

Next: Validate Reduction in Import

IQ Gateway: 202424010314

Internal Installers

Commissioning / Commissioning - Tesla screenshots showing fully operational system with all devices paired

2022-09-08 09:47:41 PDT

Step 3 of 6: Connectivity

Connect IQ Gateway to Internet

3

Time left ~20 mins

IQ Gateway is communicating with Enphase cloud

202424010314

IQ Gateway connection to the Enphase Cloud:

Wi-Fi Not Connected

Ethernet

Cellular Sprint

Disconnect from IQ Gateway

Next step: Provisioning

IQ Gateway: 202424010314 (v 08.02.127)

Internal Installers

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Report Created: 09/09/2025

Commissioning / Commissioning - Tesla screenshots showing fully operational system with all devices paired



Internal Installers