

	DUAL MICROS	SINGLE MICROS			
INVERTER AMPERAGE:	3.19	1.59	CIRCUIT AMPERAGE	=	TOTAL AMPERAGE
	4	1	15.95		55.82
	3	1	11.9625		
	5		19.9375		
	4		15.95		
	4		15.95		

11.96 KW DC PV SYSTEM
NAURINE SOLAR PROJECT
696 Thomas Gage Dr, Fuquay-Varina, NC
27526

LINE DIAGRAM

DATE:	August 19, 2025
DRAWN BY:	SAM

Sheet No. **E-01**

GENERAL ELECTRICAL NOTES

- Equipment shall be new unless otherwise noted.
- Equipment shall be listed unless otherwise noted.
- Equipment shall be installed providing adequate working space in compliance with NEC.
- Copper conductors shall be used and shall have insulation rating 600v, 90°C unless otherwise noted.
- Conductors shall be sized in accordance with the NEC and ampacity shall be derated for temperature increase, conduit fill & voltage drop.
- All conductors shall be installed in approved conduits. Conduits shall be adequately supported in accordance with the NEC.
- AC Disconnect is optional, however it may be required by the utility.
- Exposed non-current carrying metal parts shall be grounded in accordance with the NEC.
- All work shall comply with the NEC and all applicable local electrical code requirements.
- Contractor will provide labeling in accordance with the NEC, Article 110, 225, 690, and 705.

PV SYSTEM DISCONNECT/ COMBINER BOX
BREAKER PANELS

 **WARNING** 
TURN OFF PHOTOVOLTAIC
AC DISCONNECT PRIOR TO
WORKING INSIDE PANEL

PHOTOVOLTAIC SYSTEM
 **AC DISCONNECT** 
OPERATING VOLTAGE **240V** VOLTS
OPERATING CURRENT **44.66** AMPS

**RAPID SHUTDOWN
PV ARRAY**

NEC 110.27(C) & OSHA 1910.145(f)(7)

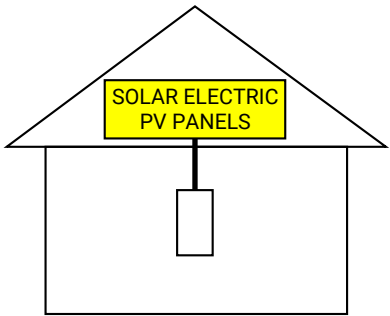
SERVICE DISCONNECT

**MAIN PHOTOVOLTAIC SYSTEM
DISCONNECT**

NEC 690.13(B)

**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.



IFC 605.11.3(1) & NEC 690.12(D)

NET METER w/ BATTERY

 **WARNING** 
THREE POWER SOURCES
SOURCES: UTILITY GRID, BATTERY AND
PV SOLAR ELECTRIC SYSTEM

NEC 705.30(C) and NEC 690.59

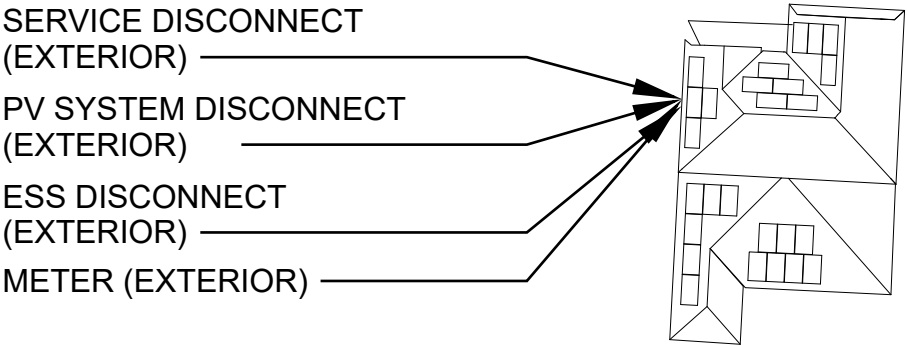
ENERGY STORAGE SYSTEMS

**BATTERY
DISCONNECT**

NEC 706.7(E)(2)

CAUTION

POWER TO THIS BUILDING IS SUPPLIED FROM THE FOLLOWING
SOURCES WITH DISCONNECTS LOCATED AS SHOWN:



**CAPE FEAR
SOLAR SYSTEMS**

910 S. 2nd St.
Wilmington, NC 28401
910-409-5533



GC LIC. NO. : 65677
ELEC. LIC. NO. : U-33321

11.96 kW DC PV SYSTEM
NAURINE SOLAR PROJECT
696 Thomas Gage Dr, Fuquay-Varina, NC 27526
STICKERS

REVISION LIST

#	REV. DATE	DESC.

DATE:	August 19, 2025
DRAWN BY:	SAM

Sheet No.

E-02