

ST. JOHNS COUNTY, FLORIDA

PHOTOVOLTAIC ELECTRICAL POWER SYSTEM

NEC Article 690

PV Type	
	Stand Alone PV System with Batteries - (DC system) separate electric permit not
required.	
	Stand Alone PV System without Batteries - (DC to AC without utility connection)
	Utility Interactive PV System- (DC to AC with utility connection)
Installati	
	Roof Mounted (Manufacture specifications required onsite)
	Ground Mounted (Manufacture specifications required onsite)
Groundi	ng: N.E.C. 690.41
Conduct	or Type·
	ExposedIn Conduit
	ve, Marine and Telecom devices are not acceptable
AC:	Exposed
1101	USE-2UF
	In Conduit
	RHW -2THWN-2XHHW-2
	MII W 2111 W 1 V - 2 MIII W - 2

NOTE:

- 1. AC disconnects must be listed for AC operation. . DC disconnects must be listed for DC operation.
- 2. Photovoltaic Power Systems must meet all local, state, and federal code related requirements.
- 3. Machinery and Equipment must meet minimum elevation requirements and zoning set-back requirements.
- 4. All Conductors should have insulation rated for 90*C and wet conditions, exposed conductors must also be sunlight resistant.
- 5. PV systems must have ground-fault protection device as per 690.41 (b) (1).
- 6. **SEPARATE ELECTRIC PERMIT** required for conductors and equipment on load side of inverter.

Permitting requirements in addition to worksheet: Two (2) copies of Photovoltaic System Specifications, One-line diagram including AC/DC grounding electrode requirements and completed Building Permit Application.