

*PLAN GUIDELINES



Rev. 1 (9/16/2022)

A Residential Standard Solar PV System Plan should include clear documentation including, but not limited to the following:

1.	Pag	ge/Sheet 1: Cover Sheet – A proper cover sheet should include general information about the project:	
		A location map and aerial image of project site	
		Owner name and address	
		Installer Name and contact information	
		Design Professional(s) to include Engineer(s) and/or Master Electrician (*Required – see Techincal Bulletin)	
		Code analysis (Designed in accordance with latest adopted code)	
		Drawing index	
2.		ge/Sheet 2: Site and Roof Plan: A proper site plan should (at minimum) include:	
		Roof plan showing modules placement on roof, disconnect locations and setbacks	
		Location of all existing structures and proposed PV system equipment (including modules, disconnects,	
		inverters, panel boards, combiner boxes, storage batteries, utility meters, etc.)	
		Location of Existing plumbing vent terminations: Vent termination shall meet the minimum requirements of	
		the IPC and/or IRC. (Ref. 2021 IRC, Sec. P3103)	
3.	Pag	ge/Sheet 3: System Drawings: System drawings should show, (at minimum - additional sheets may be	
		eded):	
		AC and/or DC circuit arc fault protection as required by the NEC	
		Rapid Shutdown information shown in accordance with NEC	
		Inverter listed to the UL 62109 or UL 1741 Safety Standard; photovoltaic module(s) listed to the UL 1703	
		safety standard and appropriate listings for "all" associated equipment as conducted by a Nationally	
		Recognized Testing Laboratory	
		Inverter AC output disconnect location, utility disconnect location, and AC output over-current protection	
		device rating.	
		Combiner box(es), disconnect switch, size of source circuit overcurrent protection, if required	
		Main service entry panelboard bus rating and main circuit breaker/fuse ampere rating	
		Circuit diagram with conduit, wire type and sizes, and/or cable type and wire sizes	
		Equipment grounding and bonding conductors and grounding electrode conductors, if applicable	
		Battery disconnect and overcurrent protection, if applicable to include but not limited to mounting	
		requirements, smoke detection, protection, etc.	
		Appropriate calculations as referenced in the Solar America Board for Codes and Standards (Solar ABCs) to	
		include but not limited to, calculations used to: determine wire sizes; fuse and breaker type and sizing;	
		temperature deration factors; PV system voltage not exceeding the maximum rated DC inverter input	
		voltage or that of the connected equipment; and size equipment grounding conductor per NEC	
		A 3-line diagram shall be provided that meets the requirements of NEC	
		Electrical Design shall be provided by Texas Professional Engineer, Master Electrician, and/or Manufacturer's	
		Engineered line diagram	
4.	Pag	Page/Sheet 4: Attachment Detail	
		Framing plans showing supporting structure for arrays	
		Details of attachment of the panels	
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		Make, model, and quantity of major components with required listing in accordance with NRTL	
5.	_	ge/Sheet 5: Label Standards	
		List of all appropriate labels and marking and their locations per the NEC and IFC requirements	