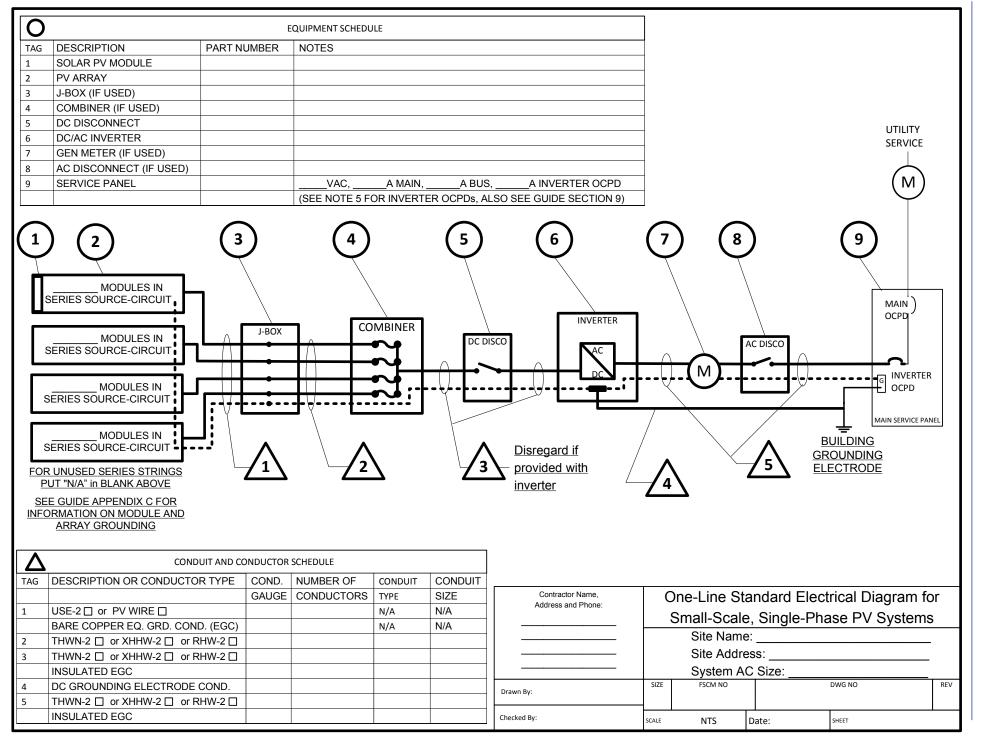
STANDARD STRING SYSTEM ELECTRICAL DIAGRAM



Notes for Standard String System Electrical Diagram

PV MODULE RATINGS @ STC (Guide Section 5)

MODULE MAKE		
MODULE MODEL		
MAX POWER-POINT CURRENT (I _{MP})		А
MAX POWER-POINT VOLTAGE (V _{MP})		V
OPEN-CIRCUIT VOLTAGE (V _{oc})		V
SHORT-CIRCUIT CURRENT (I _{SC})		А
MAX SERIES FUSE (OCPD)		А
MAXIMUM POWER (P _{MAX})		W
MAX VOLTAGE (TYP 600V _{DC})		V
VOC TEMP COEFF		
IF COEFF SUPPLIE		

NOTES FOR ALL DRAWINGS:

OCPD = OVERCURRENT PROTECTION DEVICE

NATIONAL ELECTRICAL CODE® REFERENCES
SHOWN AS (NEC XXX.XX)

INVERTER RATINGS (Guide Section 4)

INVERTER MAKE		
INVERTER MODEL		
MAX DC VOLT RATING		V
MAX POWER @ 40°C		W
NOMINAL AC VOLTAGE		V
MAX AC CURRENT		А
MAX OCPD RATING		А

SIGNS-SEE GUIDE SECTION 7

SIGN FOR DC DISCON	NECT			
PHOTOVOLTAIC POWER SOURCE				
RATED MPP CURRENT	А			
RATED MPP VOLTAGE	V			
MAX SYSTEM VOLTAGE	V			
MAX CIRCUIT CURRENT	А			
WARNING: ELECTRICAL SHOCK HAZARD-LINE AND LOAD MAY BE ENERGIZED IN OPEN POSITION				
SIGN FOR INVERTER OCPD AND AC DISCONNECT (IF USED)				
SOLAR PV SYSTEM AC POINT OF CONNECTION				
AC OUTPUT CURRENT	А			
NOMINAL AC VOLTAGE	V			
THIS PANEL FED BY MULTIPLE SOURCES (UTILITY AND SOLAR)				

NOTES FOR ARRAY CIRCUIT WIRING (Guide Section 6 and 8 and Appendix D):

- 1.) LOWEST EXPECT AMBIENT TEMPERATURE BASED ON ASHRAE MINIMUM MEAN EXTREME DRY BULB TEMPERATURE FOR ASHRAE LOCATION MOST SIMILAR TO INSTALLATION LOCATION. LOWEST EXPECTED AMBIENT TEMP °C
- 2.) HIGHEST CONTINUOUS AMBIENT TEMPERATURE BASED ON ASHRAE HIGHEST MONTH 2% DRY BULB TEMPERATURE FOR ASHRAE LOCATION MOST SIMILAR TO INSTALLATION LOCATION. HIGHEST CONTINUOUS TEMPERATURE ______°C
- 2.) 2005 ASHRAE FUNDEMENTALS 2% DESIGN TEMPERATURES DO NOT EXCEED 47°C IN THE UNITED STATES (PALM SPRINGS, CA IS 44.1°C). FOR LESS THAN 9 CURRENT-CARRYING CONDUCTORS IN ROOF-MOUNTED SUNLIT CONDUIT AT LEAST 0.5" ABOVE ROOF AND USING THE OUTDOOR DESIGN TEMPERATURE OF 47°C OR LESS (ALL OF UNITED STATES).
- a) 12 AWG, 90°C CONDUCTORS ARE GENERALLY ACCEPTABLE FOR MODULES WITH Isc OF 7.68 AMPS OR LESS WHEN PROTECTED BY A 12-AMP OR SMALLER FUSE
- b) 10 AWG, 90°C CONDUCTORS ARE GENERALLY ACCEPTABLE FOR MODULES WITH Isc OF 9.6 AMPS OR LESS WHEN PROTECTED BY A 15-AMP OR SMALLER FUSE.

NOTES FOR INVERTER CIRCUITS (Guide Section 8 and 9):

1) IF UTILITY REQUIRES A VISIBLE-BREAK SWITCH, DOES THIS SWITCH MEET THE REQUIREMENT? YES $\hfill\Box$ N/A $\hfill\Box$
2) IF GENERATION METER REQUIRED, DOES THIS METER SOCKET MEET THE REQUIREMENT? YES $\hfill\Box$ N/A $\hfill\Box$
3) SIZE PHOTOVOLTAIC POWER SOURCE (DC) CONDUCTORS BASED ON MAX CURRENT ON NEC 690.53 SIGN OR OCPD RATING AT DISCONNECT
4) SIZE INVERTER OUTPUT CIRCUIT (AC) CONDUCTORS ACCORDING TO INVERTER OCPD AMPERE RATING. (See Guide Section 9)
5) TOTAL OF INVERTER OCPD(s), ONE FOR EACH INVERTER. DOES TOTAL SUPPLY BREAKERS COMPLY WITH 120% BUSBAR EXCEPTION IN 690.64(B)(2)(a)? YES NO

Contractor Name, Address and Phone:	Notes for One-Line Standard Electrical					
		Diagram for Single-Phase PV Systems				
	Site Name:					
		Site Address:				
	System AC Size:					
Drawn By:	SIZE	FSCM NO		DWG NO	REV	
Checked By:	SCALE	NTS	Date:	SHEET		