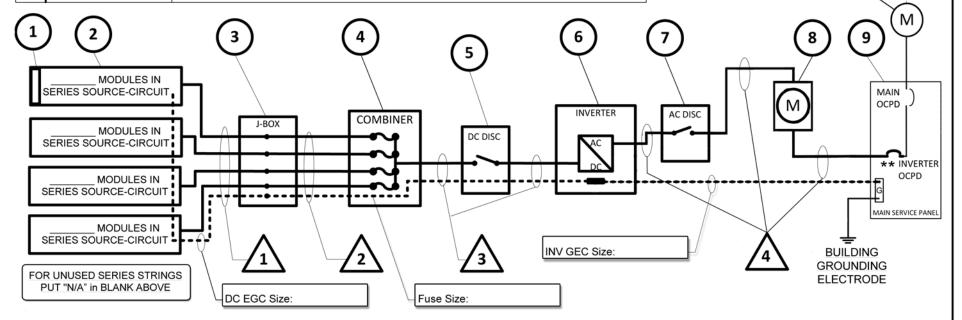
TAG	EQUIPMENT SCHEDULE							
1	SOLAR PV MODULE	MAKE:	M	ODEL:	(Attach Cut Sheet - See notes for ratings)			
2	PV ARRAY	WEIGHT:	HEIGHT FRO	OM ROOF:	(Attach cut sheet of mounting system)			
3	J-BOX	LENGTH:	WIDTH:	HEIGHT:	NEMA RATING:			
Ã	COMBINER	MAKE:	M	ODEL:	(Attach cut sheet)			
5	DC DISCONNECT	VDC:	DC AMP:	MAKE:				
6	DC/AC INVERTER	MAKE:			(Attach cut sheet - See notes for ratings)			
7	AC DISCONNECT	VAC:	AMPS:	MODEL:				
8	PRODUCTION METER	METER #:	(Check with serving utility for meter requirements & loc		ing utility for meter requirements & location)			
9	SERVICE PANEL	VAC:	MAIN OCPD:	BUS AMP:	INVERTER OCPD:			

Contractor - Installer Information					
Permit #: Date:					
Name:					
Address:					
Contact Name:					
Contact Phone:					
Email:					

Meter #

UTILITY

**METER** 



	Conductor	CU/AL	С	onducto	rs	*Derated	Race	way	Ambier	nt Temp	Distance	
TAG	Insulation Type	CUAL	Size	Amps	Num	Amps	Size	Туре	Roof	Attic	Roof	
1												
2												
3										-		
4												

\* Note: Derating of conductors based on number of conductors in raceway, ambient temp and distance off roof where applicable. (NEC 310.15)

\*\* Note: Conductors and overcurrent devices shall be sized to carry not less than 125 percent of the maximum currents. (NEC 690.8(B))

# Standard Electrical Diagram - Residential Small Scale PV System Central Inverter Systems

THIS PLAN MUST BE PROVIDED TO THE INSPECTOR AT THE JOB SITE

## Site Name:

### Site Address:

This plan is NOT intended to be used with micro inverters or transformer-less inverters. Conductors, where installed outdoors in raceways shall be "W" rated and have an insulation rating of 90 deg C.

Rev - 02/21/2013

NOTES for Residential Small Scale PV System Electrical Diagram					
Permit #:	Date:				
Contractor:					
Job Address:					
Contact Name:					
Contact Phone:					

#### SIGNS

## SIGN FOR DC DISCONNECT

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					
NOMINAL AC VOLTAGE	V				
THIS PANEL FED BY MULTIPLE					
SOURCES (UTILITY AND SOLAR)					

#### PV MODULE RATINGS

MODULE MAKE				
MODULE MODEL				
MAX POWER-POIN	MAX POWER-POINT CURRENT (I <sub>MP</sub> )			
MAX POWER-POIN	V			
OPEN-CIRCUIT VO	V			
SHORT-CIRCUIT C	А			
MAX SERIES FUSE	А			
MAXIMUM POWER	w			
MAX VOLTAGE (T	V			
VOC TEMP COEFF (mV/°C ☐ or %/°C ☐)				
IF COEFF SUPPLIED, CIRCLE UNITS				

## **INVERTER RATINGS**

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

LOWEST EXPECTED AMBIENT TEMP:	°C
HIGHEST CONTINUOUS TEMPERATURE:	°C

NEC 690.8(B) Photovoltaic system currents shall be considered continuous.

NEC 690.8(B)(1) The circuit conductors and overcurrent devices shall be sized to carry not less than 125 percent of the maximum currents calculated in 690.8(A).

Exception: Circuits containing an assembly, together with its overcurrent device(s), that is listed for continuous operation at 100 percent of its rating shall be permitted to be utilized at 100 percent of its rating.

All signage and markings shall be a phenolic or metalic plate or other similar material in block letters 1/4 inch or greater in height, and suitable for the environment. Letters and background shall be in contrasting colors. Screws, rivets or other approved means shall be used to affix plates to equipment.

INVER	TER	PANELBOARD			
Maximum Current	OCPD Size	Main Bus	Main OCPD		
56 amps	70 amps	225 amps	200 amps		
36 amps	45 amps	225 amps	225 amps		
33 amps	40 amps	200 amps	200 amps		
24 amps	30 amps	150 amps	150 amps		
20 amps	25 amps	125 amps	125 amps		
16 amps	20 amps	100 amps	100 amps		