



PV MODULE RATINGS @ STC

MODULE MANUFACTURER _____

MODULE MODEL # _____

OPEN-CIRCUIT VOLTAGE = ____ V

OPERATING VOLTAGE = ____ V

MAX SYSTEM VOLTAGE = ____ V

OPERATING CURRENT = ____ A

SHORT-CIRCUIT CURRENT = ____ A

MAX SERIES FUSE (OCPD) = ____ A

MAXIMUM POWER = ____ W

Voc TEMP COEFF = ____ mV or %/°C
 (IF SUPPLIED, CIRCLE TYPE OF COEFF)

PV ARRAY INFORMATION

OF MODULES IN SERIES ____

OF PARALLEL CIRCUITS ____

LOWEST EXPECTED TEMP ____ °C

HIGHEST EXPECTED TEMP ____ °C

690.53 PHOTOVOLTAIC POWER SOURCE SIGN ON DC DISCO

RATED CURRENT = ____ A

RATED VOLTAGE = ____ V

MAX SYS VOLTAGE = ____ V

MAX CURRENT = ____ A

SOURCE CIRCUIT CONDUCTOR TYPE
 (OUTSIDE CONDUIT-CIRCLE ONE) USE-2; PV WIRE

SOURCE CIRCUIT CONDUCTOR TYPE
 (INSIDE CONDUIT-CIRCLE ONE) THWN-2; XHHW-2; RHW-2; USE-2

SOURCE CIRCUIT CONDUCTOR SIZE
 (SEE NOTES FOR ARRAY WIRING BELOW) ____ AWG

NOTES FOR ARRAY WIRING:

1.) 2005 ASHRAE FUNDAMENTALS 2% DESIGN TEMPERATURES DO NOT EXCEED 47°C IN THE UNITED STATES (PALM SPRINGS, CA IS 43°C).

2) FOR LESS THAN 9 CURRENT-CARRYING CONDUCTORS IN ROOF-MOUNTED SUNLIT CONDUIT AND USING THE OUTDOOR DESIGN TEMPERATURE OF 47°C,

a) 12 AWG CONDUCTORS ARE GENERALLY ACCEPTABLE FOR MODULES WITH I_{sc} OF 6.4 AMPS OR LESS WHEN PROTECTED BY A 10-AMP FUSE.

b) 10 AWG CONDUCTORS ARE GENERALLY ACCEPTABLE FOR MODULES WITH I_{sc} OF 9.6 AMPS OR LESS WHEN PROTECTED BY A 15-AMP FUSE.

NOTES FOR INVERTER INPUT AND OUT CIRCUITS:

1) IF UTILITY REQUIRES VISIBLE-BREAK SWITCH, DOES THE AC DISCONNECT SATISFY THE UTILITY REQUIREMENTS OR IS AN ADDITIONAL SWITCH NECESSARY?

2) IF INCENTIVE PROGRAM REQUIRES PV OUTPUT METER, ADD METER BASE THAT MEETS REQUIREMENTS.

3) SIZE PHOTOVOLTAIC POWER SOURCE (DC) CONDUCTORS BASED ON MAX CURRENT ON 690.53 SIGN OR OCPD RATING AT DISCONNECT (IF SUPPLIED).

4) SIZE INVERTER OUTPUT CIRCUIT (AC) CONDUCTORS ACCORDING TO INVERTER OCPD AMPERE RATING.

OCPD = OVERCURRENT PROTECTION DEVICE (IF NO OCPD-LEAVE ITEM BLANK)

Generic Photovoltaic System Electrical Diagram for PV Systems of 10 kW or less				
Drawn By:	SIZE A	FSCM NO	DWG NO E1.1	REV 3
Checked By:	SCALE	NTS	Date:	SHEET