Solar Standard Plan — Simplified Central/String Inverter Systems

Job Address: Permit #:

Contractor/Engineer Name: License # and Class: 959986 C46

Signature: Date: Phone Number:

Total # of Inverters installed: 1

Inverter 1 AC Output Power Rating: 10k Watts

**Ambient Temperature Adjustment Factors**: select the box for the expected lowest ambient temperature (TL) with the corresponding Ambient Temperature Correction Factor (CF):

**1)** If TL is greater than or equal to -5°C, CF = 1.12

If TL is between -6°C and -10°C, CF = 1.14

Average ambient high temperature (TH) ≤47°C

Note: For a lower TL or a higher TH, this plan is not applicable.

**DC Information**:

Module Manufacturer: Sun Gold Power Model:

**2)** Module VOC (from module nameplate): Volts

**3)** Module ISC (from module nameplate): Amps

Is Module ISC less than 13Amps? Yes No (If No, this plan is not applicable.)

**4)** Module DC output power under standard test conditions(STC)= Watts(STC)

**5)** DC Module Layout

Identify each source circuit (string) for inverter 1 shown on

the roof plan with a Tag (e.g. A,B,C,…) Number of modules per source circuit for inverter1

Total number of source circuits for inverter1:

**6)** Are DC/DC Converters used? Yes No If No, skip to Step 7.

**7)** Maximum System DC Voltage

Only use for systems without DC/DC converters.

**8)** Maximum System DC Voltage from DC/DC Converters to Inverter— Only required if Yes in Step 6

Maximum System DC Voltage= Volts

**9)** Sizing Source Circuit Conductors

**10)** Inverter DC Disconnect

Does the inverter have an integrated DC disconnect? Yes No If Yes, skip to Step 11.

If No, the external DC disconnect to be installed is rated for \_\_\_\_Amps (DC) and \_\_\_\_ Volts (DC)

**11)** Inverter Information

Manufacturer: Sun Gold Power Model: SPH10048P

Max. Continuous AC Output Current Rating: Amps

Max. Short Circuit Current Per Input: \_\_\_\_\_\_\_ Amps

Does PV Module ISC (Step 3) exceed value above? Yes No (If No, this plan is not applicable.)

Integrated DC Arc-Fault Circuit Protection? Yes No (If No is selected, this plan is not applicable.)

Grounded or Underground System? Grounded Ungrounded

**AC Information**:

**12)** Sizing Inverter Output Circuit Conductors and OCPD

Inverter Output OCPD rating = \_\_\_\_\_\_\_ Amps (Table 3)

Inverter Output Circuit Conductor Size = \_\_\_\_\_\_\_ AWG (Table 3)

**13)** Point of Connection to Utility –Inverter(s) must be connected to either load or supply side of service disconnecting means. Only one of the sub-sections below and either Single Line Diagram #1 or Single Line Diagram #2 should be filled out.

**14)** Rapid Shutdown

**15)** Grounding and Bonding of Modules and Racking System (select one):

Racking system listed to UL 2703 using modules identified in the listing.

Other method subject to AHJ approval

Markings

CEC Articles 690 and 705 and CA Residential Code Section R324require the following labels or markings be installed at these components of the photovoltaic system:

SOLAR PV STANDARD PLAN

Roof Layout Diagram for One-and Two-Family Dwellings