

ARRAY CONFIGURATION:
5 SOLECTRIA PVI-50TL INVERTERS: 45 STRINGS OF 20 MODULES
900 MODULES TOTAL, 45 STRINGS
ZHONGLI TALESUN SOLAR TP660M-285 285W MODULES

INTERCONNECTION STANDARDS COMPLIANCE
The inverters listed have been tested and listed by Underwriters Laboratories to be in compliance with UL1741 Statistic Inverters And Charge Controllers For Use In Photovoltaic Power Systems, as well as IEEE-929-2000 Recommended Practice For Utility Interface Of Photovoltaic (PV) Systems.
IEEE-929-2000 provides guidance regarding equipment and function necessary to ensure compatible operation of photovoltaic systems which are connected in parallel with the electric utility. UL 1741 is the standard applied by Underwriters Laboratory to the Inverter to verify it meets the recommendations of IEEE-929-2000.
Refer to both documents for details of these Recommendations and test procedures.

AC Disconnect is accessible, and lockable.

Single line diagrammatic only. Actual layout determined by existing conditions.
All hazardous transmission lines to be labeled: "CAUTION-Electrical Hazard"

900 ET SOLAR
TALESUN TP660M-285
285W MODULES
256.50 KW DC POWER

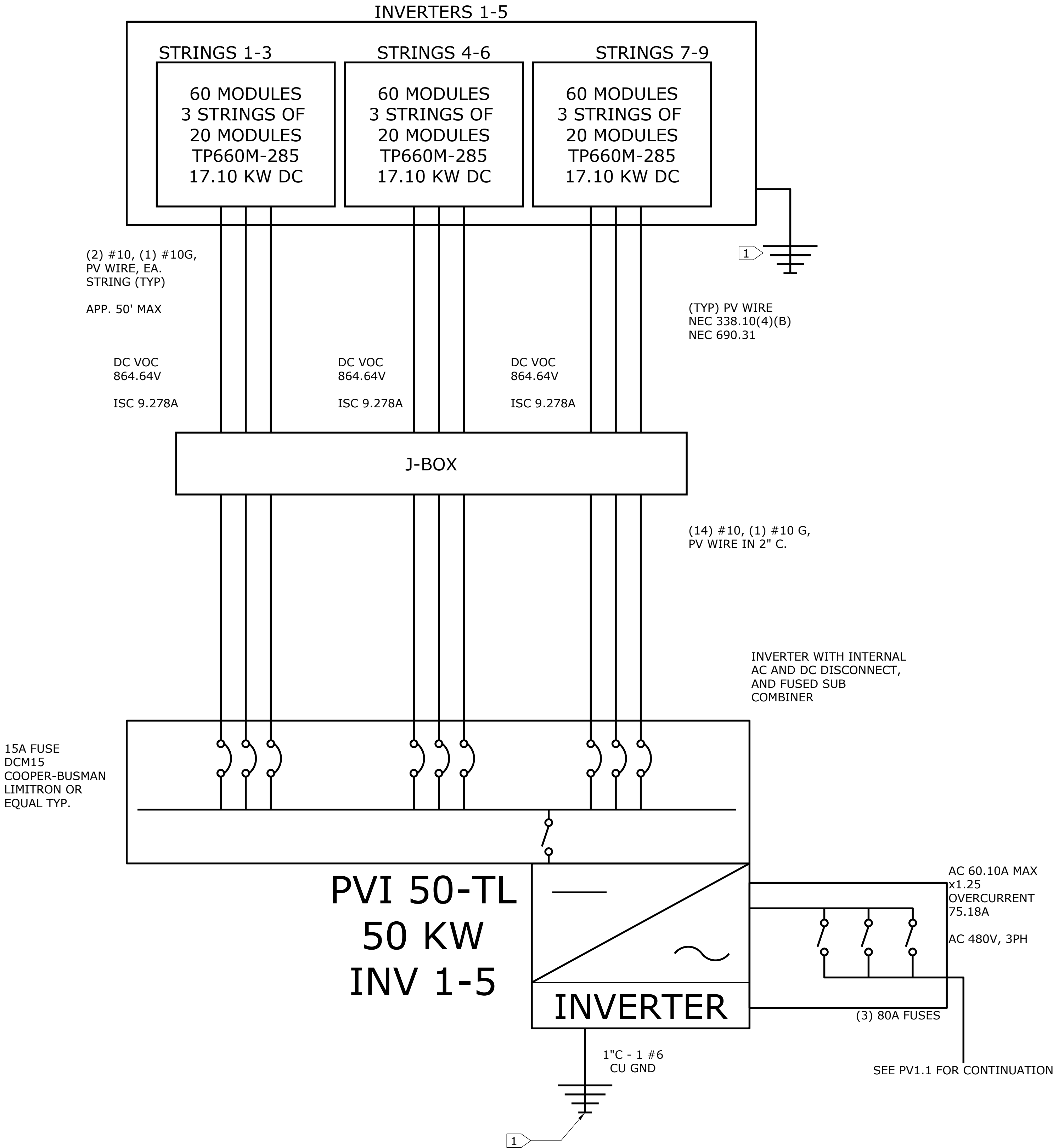
TOTAL SYSTEM CALCULATIONS			
INV#	# OF STRINGS	# OF PANELS	KW
1-5	45	900	256.50
TOTAL	45	900	256.50

TABLE A (NEC 690.7)		
CELCIUS	FAHRENHEIT	FACTOR
14 TO 10	58 TO 50	1.06
9 TO 5	49 TO 41	1.08
4 TO 0	40 TO 32	1.1
(-1 TO -5)	31 TO 23	1.12
(-6 TO -10)	22 TO 14	1.14

MODULE MODEL	TP660M-285	MODULES PER STRING	20	VOLTAGE CORRECTION FACTOR	1.12 (TABLE A)
MAX MODULE POWER	285 W	STRING OUTPUT		STRING OUTPUT	
MAXIMUM POWER VOLTAGE	32.10 V	719.04 V		719.04 V	
MAXIMUM POWER CURRENT	8.879 A	8.879 A		8.879 A	
OPEN-CIRCUIT VOLTAGE	38.60 V	864.64 V		864.64 V	
SHORT-CIRCUIT CURRENT	9.278 A	9.278 A		9.278 A	
FUSE SIZE	15 A				

NOT TO EXCEED 1000V

20 PANEL STRING OUTPUT			
# STRINGS	1	FACTORED 1.25	FACTORED 1.5625
MAX VOLTAGE	719.04 V	719.04	719.04 V
MAX CURRENT	8.879 A	11.10	13.87 A
OPEN CIRCUIT VOLTAGE	864.64 V	864.64	864.64 V
SHORT CIRCUIT CURRENT	9.278 A	11.60	14.50 A



INV 1-6 CALCULATIONS			
MPPT#	# OF STRINGS	# OF PANELS	KW
1	3	60	17.10
2	3	60	17.10
3	3	60	17.10
4	0	0	0
TOTAL	9	180	51.30

BPI
PO BOX 10637
NAPA, CA 94581
PH: (707)-252-9990

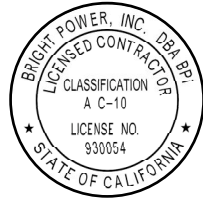
WINERY SQUARE
1955 WEST TEXAS STREET
FAIRFIELD, CA 94533
APN: 011-060-038

PV1.0
SDP 3

DATE: 8/1/16

BY: JK

JOB NO.:



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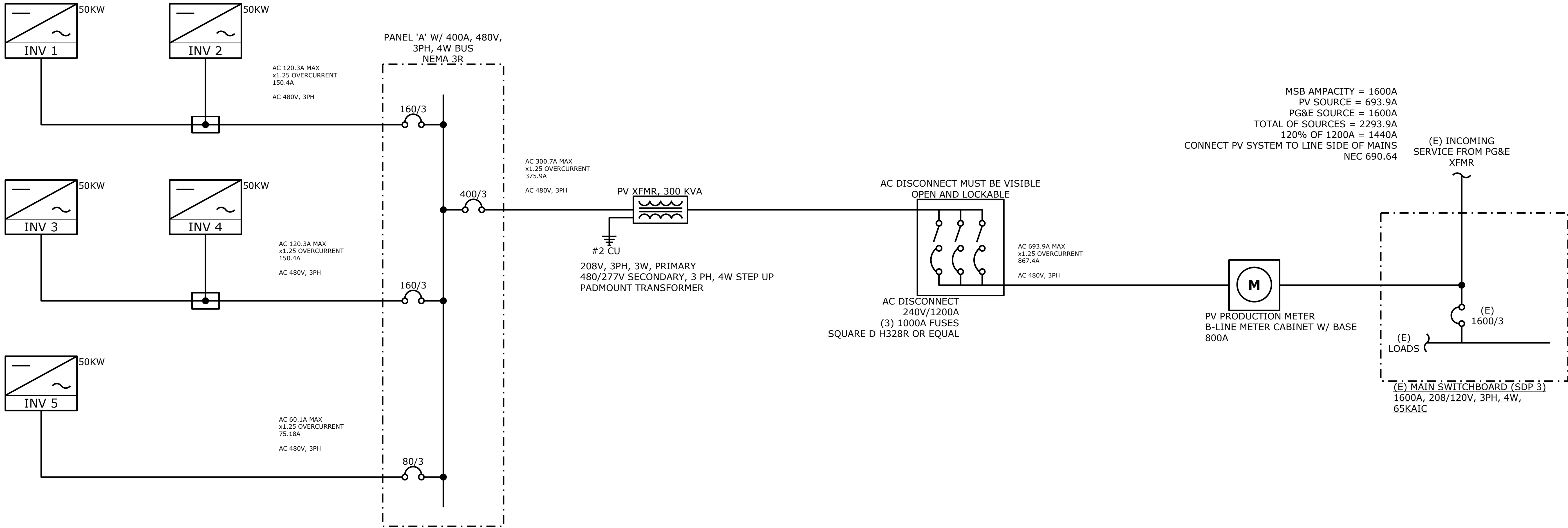
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NUMBERED NOTES

1 PROVIDE #6 CU GROUNDING ELECTRODE CONDUCTOR TO BUILDING GROUND, PER ARTICLE 250, CEC.

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256.50 KW DC POWER

TOTAL SYSTEM CALCULATIONS			
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TOTAL	45	900	256.50



MSB AMPACITY = 1600A
PV SOURCE = 693.9A
PG&E SOURCE = 1600A
TOTAL OF SOURCES = 2293.9A
120% OF 1200A = 1440A
CONNECT PV SYSTEM TO LINE SIDE OF MAINS
NEC 690.64

(E) INCOMING
SERVICE FROM PG&E
XFMR

(E) LOADS
(E) 1600/3

(E) MAIN SWITCHBOARD (SDP 3)
1600A, 208/120V, 3PH, 4W,
65KAIC



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