

SYSTEM SUMMARY				
	BRANCH #1	BRANCH #2	BRANCH #3	BRANCH #4
INVERTERS PER BRANCH	8	8	8	10
MAX AC CURRENT	9.68A	9.68A	9.68A	12.10A
MAX AC OUTPUT POWER	2,320W	2,320W	2,320W	2,900W
ARRAY STC POWER	12,750W			
ARRAY PTC POWER	11,781W			
MAX AC CURRENT	41.14A			
MAX AC POWER	9,860W			
DERATED (CEC) AC POWER	9,860W			

MODULES											
REF.	QTY.	MAKE AND MODEL	PMAX	PTC	ISC	IMP	VOC	VMP	TEMP. COEFF. OF VOC	FUSE RATING	
PM1-34	34	JINKO TIGER JKM375M-6RL3-B	375W	346.50W	11.01A	10.19A	44.12V	10.19V	-0.124V/°C (-0.28%/°C)	20A	

INVERTERS											
REF.	QTY	MAKE AND MODEL	AC VOLTAGE	GROUND	OCPD RATING	RATED POWER	MAX OUTPUT CURRENT	MAX INPUT CURRENT	MAX INPUT VOLTAGE	CEC WEIGHTED EFFICIENCY	
I1-34	34	ENPHASE IQ7PLUS-72-2-US	240A	FLOATING	20A	290W	1.21A	20A	60V	97.0%	

DISCONNECTS				
REF.	QTY.	MAKE AND MODEL	RATED CURRENT	MAX RATED VOLTAGE
SW1	1	SQUARE D D222NRB	60A	240V

ASHRAE EXTREME LOW	33.7°C (92.7°F), SOURCE: ESSEX CO (-74.28°; 40.88°)
ASHRAE 2% HIGH	33.7°C (92.7°F), SOURCE: ESSEX CO (-74.28°; 40.88°)

OCPDS			
REF.	QTY	RATED CURRENT	MAX VOLTAGE
CB1-4	4	20A	240V
CB5	1	15A	240V
FU1-2	2	60A	240V

BILL OF MATERIAL							
CATEGORY	MAKE	MODEL NUMBER	REF	QTY	UNIT	QTY/UNIT	DESCRIPTION
PV MODULE	JINKO	TIGER JKM375M-6RL3-B	PM1-34	34	PIECE	1	JINKO TIGER JKM375M-6RL3-B, 375W, 132 (2×66) P TYPE MONO-CRYSTALLINE
INVERTER	ENPHASE	IQ7PLUS-72-2-US	I1-34	34	PIECE	1	ENPHASE IQ7PLUS-72-2-US 290W MICROINVERTER
DISCONNECT	SQUARE D	D222NRB	SW1	1	PIECE	1	SQUARE D D222NRB, FUSED, 2-POLE, 60A, 240VAC, NEMA 3R OR EQUIVALENT
AC COMBINER PANEL	ENPHASE	IQ COMBINER 3-ES	EP1	1	PIECE	1	ENPHASE IQ COMBINER 3-ES 125A COMBINER PANEL
PRODUCTION METER	GENERIC	GENERIC PV METER	PVM1	1	PIECE	1	GENERIC PV METER
MONITORING	ENPHASE	ENPHASE-ENVOY	ENV1	1	PIECE	1	ENPHASE ENVOY
WIRING	GENERIC	Q-12-10-240	WR1	145	FEET	1	ENPHASE Q-CABLE
WIRING	GENERIC	GEN-6-AWG-BARE-CU	WR1	145	FEET	1	6 AWG BARE, COPPER (GROUND)
WIRING	GENERIC	GEN-10-AWG-THWN-2-CU-RD	WR2	40	FEET	1	10 AWG THWN-2, COPPER, RED (LINE 1)
WIRING	GENERIC	GEN-10-AWG-THWN-2-CU-BLK	WR2	40	FEET	1	10 AWG THWN-2, COPPER, BLACK (LINE 2)
WIRING	GENERIC	GEN-8-AWG-THWN-2-CU-GR	WR2	40	FEET	1	8 AWG THWN-2, COPPER, GREEN (GROUND)
WIRING	GENERIC	GEN-6-AWG-THWN-2-CU-RD	WR3-5	30	FEET	1	6 AWG THWN-2, COPPER, RED (LINE 1)
WIRING	GENERIC	GEN-6-AWG-THWN-2-CU-BLK	WR3-5	30	FEET	1	6 AWG THWN-2, COPPER, BLACK (LINE 2)
WIRING	GENERIC	GEN-6-AWG-THWN-2-CU-GR	WR3-5	30	FEET	1	6 AWG THWN-2, COPPER, GREEN (GROUND)
WIRING	GENERIC	GEN-6-AWG-THWN-2-CU-WH	WR3-5	30	FEET	1	6 AWG THWN-2, COPPER, WHITE (NEUTRAL)
WIREWAY	GENERIC	GEN-EMT-0.5"-DIA	WW2	10	FEET	1	EMT CONDUIT 0.5" DIA
WIREWAY	GENERIC	GEN-EMT-0.75"-DIA	WW3-5	30	FEET	1	EMT CONDUIT 0.75" DIA
OCPD	GENERIC	GEN-CB-20A-240VAC	CB1-4	4	PIECES	1	CIRCUIT BREAKER, 20A, 240VAC
OCPD	GENERIC	GEN-CB-15A-240VAC	CB5	1	PIECE	1	CIRCUIT BREAKER, 15A, 240VAC
OCPD	GENERIC	GEN-FU-60A-240VAC	FU1-2	2	PIECES	1	FUSE, 60A, 240VAC
TRANSITION ENCLOSURE	GENERIC	GEN-AWB-TB-4-4X	JB1	1	PIECE	1	TRANSITION/PASS-THROUGH BOX, WITH 4 TERMINAL BLOCKS



CONTRACTOR

VANTAGE HOME SOLAR, LLC

PHONE: (833) 473-3611

ADDRESS: 3600 NEW JERSEY 66, UNIT 150
NONE NEPTUNE CITY, NJ 07753

LIC.NO.: HIC:13VH09715800

HIC.NO.:

ELE.NO.:

UNAUTHORIZED USE OF THIS
DRAWING SET WITHOUT WRITTEN
PERMISSION FROM CONTRACTOR IS IN
VIOLATION OF U.S. COPYRIGHT LAWS
AND WILL BE SUBJECT TO CIVIL
DAMAGES AND PROSECUTIONS.

NEW PV SYSTEM: 12,750 KWP

BARONE
RESIDENCE

31 SCUDDERS ROAD
SPARTA TOWNSHIP,
NJ 07871

APN: 1826001000000004

ENGINEER OF RECORD

PAPER SIZE: 11" x 17" (ANSI B)

ELECTRICAL PLAN

DATE: 2024-01-22

DESIGN BY: A. SHAPOVALENKO

CHECKED BY: UKRDRAFTING

REVISIONS