

FUNK RESIDENCE 200 SW SKYLINE LOOP FT WHITE, FL 32038

10.50 KW DC
ROOF MOUNTED FLUSH MOUNT PHOTOVOLTAIC SYSTEM
27.0 KWH BATTERY SYSTEM

PHOTOVOLTAIC SYSTEM DETAILS

- MODULES = HANWHA Q.PEAK DUO-G8 350 350 W (30 PCS)
- INVERTER = SOLAREDGE SE1400H-US (1 PCS)
- RACKING SYSTEM = IRONRIDGE XRD W/ SOLARFOOT
- DATA ACQUISITION = SOLAREDGE ZIGBEE GATEWAY

BATTERY SYSTEM DETAILS

- BATTERIES = TESLA POWERWALL 2, 13.5 KWH (2 PCS)

AUTHORITY HAVING JURISDICTION

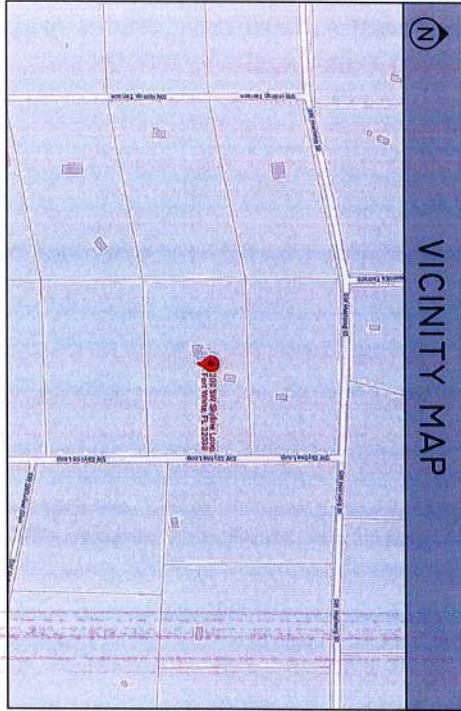
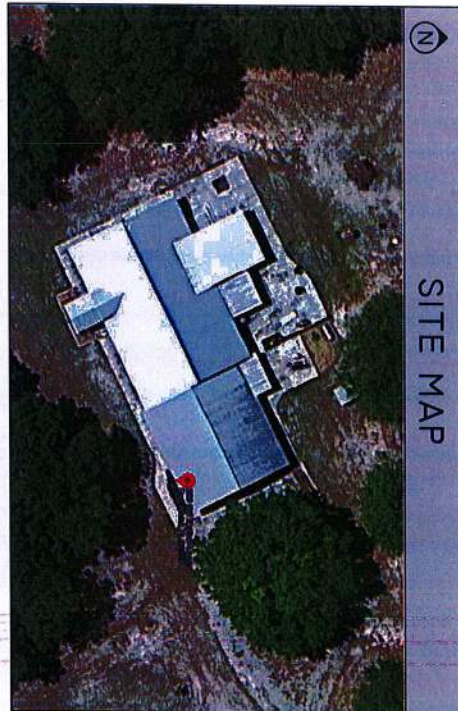
- BUILDING AUTHORITY = COLUMBIA COUNTY
- CODE REFERENCE = 2017 NEC & 2020 FBC
- ELECTRICAL UTILITY COMPANY = CLAY ELECTRIC COOPERATIVE

DESIGN CRITERIA

- DESIGN WIND LOAD = 130 MPH
- DESIGN ROOF SNOW LOAD = 0 PSF
- EXPOSURE CATEGORY = C
- HIGH TEMP (ASHRAE 2% HIGH) = 34°C
- LOW TEMP (ASHRAE EXTREME LOW) = -5°C
- ROOF TYPE = METAL CORRUGATED

SHEET INDEX

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PV-N-2	STRING DIAGRAM



COVER
PAGE
NOT TO SCALE
PV-G-0

FUNK RESIDENCE
200 SW SKYLINE LOOP, FT. WHITE, FL, 32038
SOLAR INDIVIDUAL PERMIT PACKAGE

SYSTEM DETAILS: 10.50KW DC, 16.0KWH AC
• 30 HANWHA Q.PEAK DUO-G8 350, 350W MODULES
• 1 SOLAREDGE SE1400H-US INVERTER
• 2 TESLA POWERWALL 2, 13.5KWH BATTERIES
CONTACT: BRIAN LEVERETTE
• BRIAN.LEVERETTE@SOLARIMPACT.COM
352.727.0032

DESIGNER: HANWHA ONLY

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DESIGNER



ROOF CONSTRUCTION

- ROOF TYPE = METAL CORRUGATED
- PV ARRAY = 576 SQUARE FEET
- TOTAL ROOF AREA = 5039 SQUARE FEET
- PERCENTAGE OF ROOF W/ PV = 11.4%
- MAX ATTACHMENT SPAN = 72"
- MAX CANTILEVER = 19.2"
- ATTACHMENTS SHALL BE STAGGERED SO THE LOAD IS DISTRIBUTED EVENLY TO RAFTERS UNDERNEATH THE ARRAY

FIRE SETBACKS

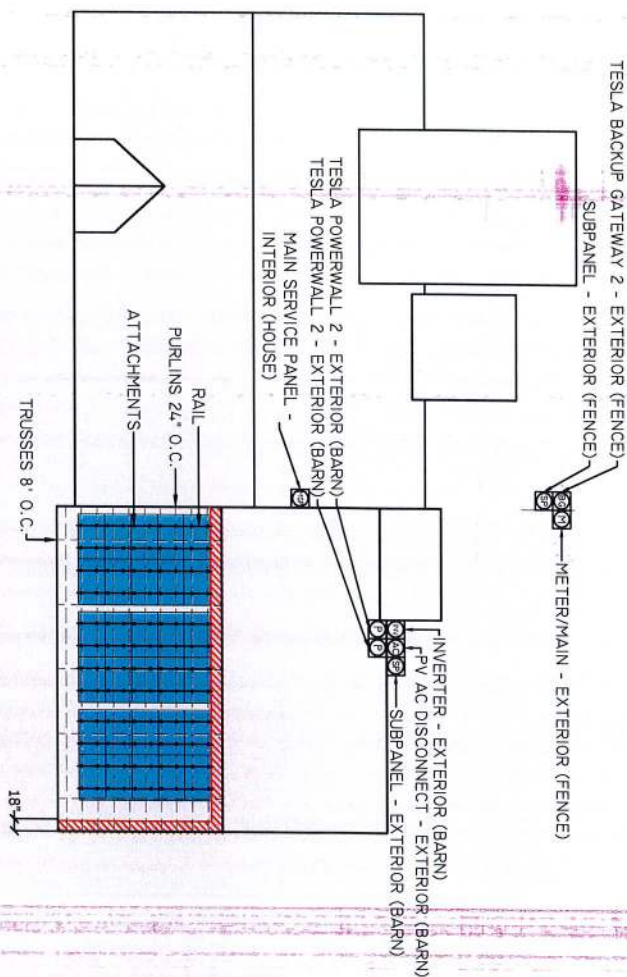
- 18" FROM RIDGE AND GABLE ENDS, 18" FROM HIPPS AND VALLEYS

STRUCTURAL NOTES

1. THIS DOCUMENT REPRESENTS THE FINISHED STRUCTURE. IT DOES NOT INDICATE THE METHOD OR SEQUENCE OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION.
2. ALL DETAILS SHALL BE INCORPORATED INTO THE PROJECT AT ALL APPROPRIATE LOCATIONS, WHETHER SPECIFICALLY CALLED OUT OR NOT. TYPICAL DETAILS MAY NOT NECESSARILY BE CALLED OUT ON PLANS, BUT APPLY UNLESS NOTED OTHERWISE.

ARRAY INFORMATION

	ARRAY 1	ARRAY 2	ARRAY 3
MOD QTY	10	10	10
TILT	4°	4°	4°
AZIMUTH	150°	150°	150°



ARRAY
LAYOUT
NOT TO SCALE
PV-A.1

FUNK RESIDENCE
290 SW SKYLINE LOOP, FT. WHITE, FL 32058
SOLAR INDIVIDUAL PERMIT PACKAGE

SYSTEM DETAILS: 10.50KW DC, 14.0KWH AC
 • 30 HANWHA Q PEAK QXO-G8 350, 250W MODULES
 • 1 SOLAREDGE S4000-UGS INVERTER
 • 2 TESLA POWERWALL 2, 15.5KWH BATTERIES
 CONTACT: BRIAN LEVERETTE
 • BRIAN.LEVERETTE@SOLARIMPACT.COM
 • 352.727.0022

DESIGNER: HARRISON GUY

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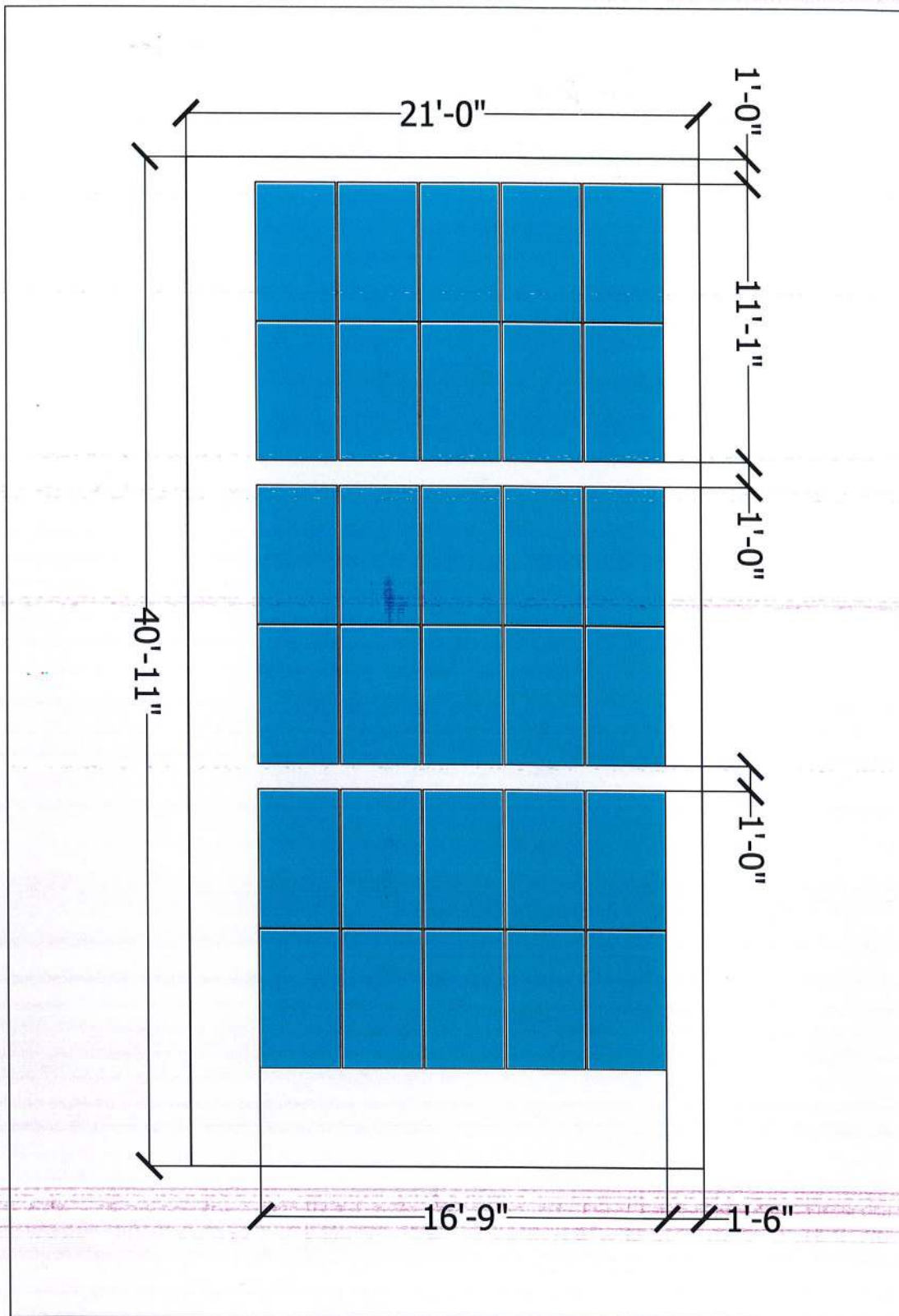


COLLATERAL

DESIGNED



4008 NW 23RD AVE, SUITE 201
 MIAMI, FL 33150
 SOLARIMPACT.COM • 305.596.8201
 1707 WINTERLY CIRCLE, SUITE 101
 500 FEDERAL AVE, SUITE 101
 www.namastesolar.com • 352.447.0300



DIMENSIONS
NOT TO SCALE
PV-A.3

FUNK RESIDENCE
200 SW SKYLINE LOOP, FT. WHITE, FL. 32034
SOLAR INDIVIDUAL PERMIT PACKAGE

SYSTEM DETAILS: 10.5KW DC, 14.0KW AC
 • 30 HANWHA Q-PEAK DUO-G6 350, 350W MODULES
 • 1 SOLAREDDO SERAPHUS INVERTER
 • 2 TESLA POWERWALL 2, 13.5KWH BATTERIES
 CONTACT: BRIAN LEVERETTE
 • BRIAN@LEVERETTE-SOLARIMPACT.COM
 352.727.0022

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DESIGNER: HARRISON GRY



CONTRACTOR

solar impact
4506 NW 23RD AVE, SUITE 201
DADECOUNTY, FL 33024
SOLARIMPACT.COM • 305.398.4271

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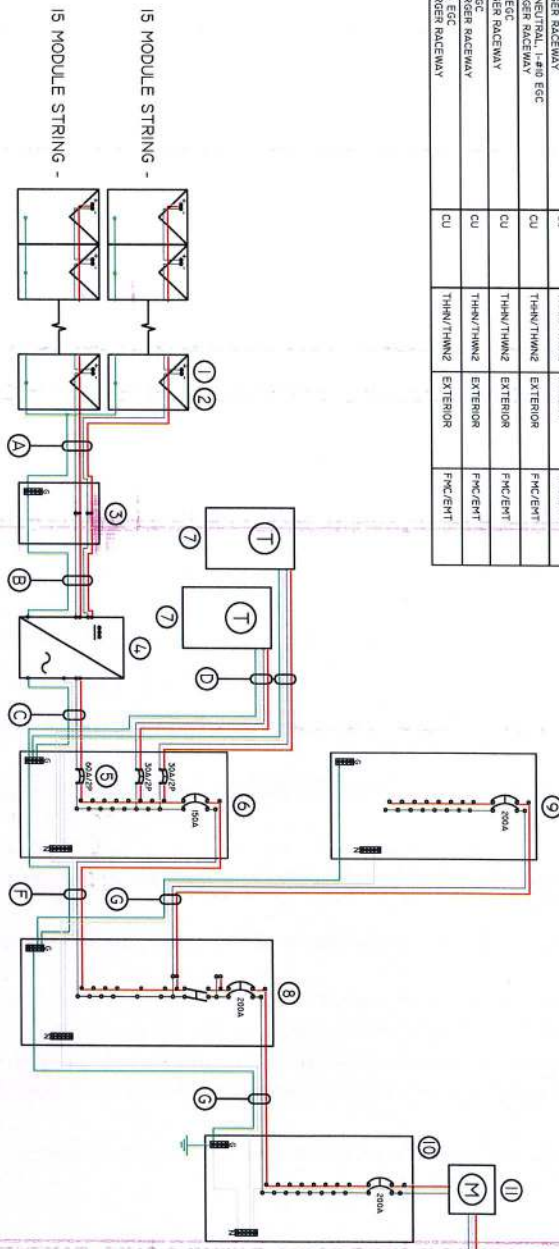
namaste solar
1171 MANCHESTER CIRCLE, BOULDER, CO 80501
855.705.5644 AND 303.441.0124
WWW.NAMASTESOLAR.COM • 303.547.5300

REF	QTY	MAKE	MODEL	LOCATION	NOTES
1	50	HANHWA	O-PEAK DUO-G8-350	FLUSH MOUNTED TO ROOF	PV MODULE
2	50	SOLAREDGE	PI-01	MOUNTED ON RACKING	POWER OPTIMIZER
3	1	SOLAREDGE	0799-SG	UNDERMOUNT ARRAY	PV ROOF JUNCTION BOX, NEMA 3R
4	1	SOLAREDGE	SE1400H-US	EXTERIOR (BARN)	DC DISCONNECT INTEGRATED INVERTER
5	1	TBD	TBD	SUBPANEL, OPPOSITE SIDE OF MAIN BREAKER	PV BREAKER, 100A/2P, 200A MAIN, 240V
6	1	TBD	TBD	INTERIOR (BARN)	SUBPANEL, 100A BUS, 100A MAIN, 240V
7	2	TESLA	POWERWALL 2	INTERIOR (BARN)	24KVA/2P BATTERY BREAKERS
8	1	TESLA	BACKUP GATEWAY 2	INTERIOR (FENCE)	TESLA BACKUP GATEWAY 2, 200A MAIN, 240V
9	1	TBD	TBD	INTERIOR (FENCE)	24KVA/2P BATTERY BREAKERS
10	1	TBD	TBD	INTERIOR (FENCE)	MAIN SERVICE PANEL, 200A BUS, 200A MAIN, 240V
11	1	TBD	TBD	UTILITY METER, 200A, 240V	UTILITY METER, 200A, 240V

GENERAL:
 1. PLACING AS REQUIRED PER 690.13, .15, .31, .51, .52, .53, .54, .56, 705.10, 705.12
 2. CONNECTED METER INDICATING PHOTOVOLTAIC SYSTEM
 3. SERVICE DISCONNECTS SHALL BE GROUPED AND/OR MARKED WITH LOCATION DESCRIPTIONS
 4. GEC SHALL BE CONTINUOUS PER 250.44(C)

BATTERY INTERCONNECTION: BREAKER IN SUBPANEL, PV INTERCONNECTION: BREAKER IN SUBPANEL

REF	CONDUCTORS	CUL.	TYPE	LOCATION	RACEWAY
A	4-#12, 1-#10 EGC	CU	PV WIRE	ARRAY	FREE AIR
B	4-#12, 1-#12 (OR LARGER) EGC	CU	THHN/THWN2	INT/EXT	PVC/EHT
C	2-#10, 1-#10 NEUTRAL, 1-#10 EGC	CU	THHN/THWN2	EXTERIOR	PVC/EHT
D	2-#10, 1-#10 EGC	CU	THHN/THWN2	EXTERIOR	PVC/EHT
E	1/2" OR LARGER RACEWAY	CU	THHN/THWN2	EXTERIOR	PVC/EHT
F	3-#1, 1-#6 EGC	CU	THHN/THWN2	EXTERIOR	PVC/EHT
G	1-1/2" OR LARGER RACEWAY	CU	THHN/THWN2	EXTERIOR	PVC/EHT



LINE
 DIAGRAM
 NOT TO SCALE
 PV-E.1

FUNK RESIDENCE
 200 SW SKYLINE LOOP, FT. WHITE, FL, 32058
 SOLAR INDIVIDUAL PERMIT PACKAGE

SYSTEM DETAILS: 10.50kW DC, 11.0kW AC
 • 50 HANHWA O-PEAK DUO-G8-350, 350W MODULES
 • 1 SOLAREDGE SE1400H-US INVERTER
 • 2 TESLA POWERWALL 2, 10.5kWh BATTERIES
 CONTACT: BRIAN LEVERETTE
 BRIAN.LEVERETTE@SOLARIMPACT.COM
 552.727.0022

DESIGNER: HARRISON DRY

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CONTRACTOR
 solar impact
 400 NW 2000 AVE, SUITE 201
 GAINESVILLE, FL 32609
 SOLARIMPACT.COM • 800.586.8871

namaste solar
 6717 INDEPENDENT CIRCLE, SUITE 100
 BOYD, FL 32609
 WWW.NAMASTE-SOLAR.COM • 352.317.5205

HAWMA Q PEAN D10-08 350 MODULE SPECIFICATIONS & CALCULATIONS			
ITEM	UNIT / CALC	UNIT	INSTALLED RETAIL
LOCATION			
AMBIENT HIGH TEMPERATURE (THMA)		°C	54.4
AMBIENT LOW TEMPERATURE (TLMA)		°C	-5
MODULE TEST TEMPERATURE (TTEST)		°C	25
DELTA T LOW TEMPERATURE (TD)		°C	-50
MODULE POWER STC (P)		WATTS (W)	350
MODULE OPERATING VOLTAGE (VMP)		VOLTS (V)	54.97
MODULE OPERATING VOLTAGE (VOC)		VOLTS (V)	61.87
MODULE EFFICIENCY (EFF)		%	16.22
MODULE COEFFICIENT OF VOL. TEMP (COEFF)			1.05
MODULE SERIAL NO. (S/N)			10.51
MODULE SERIAL NO. (S/N)			10.51
MODULE MAX VOLTAGE (CURRENT) (VOC)		VOLTS (V)	64.85
MODULE MAX VOLTAGE (CURRENT) (VMP)		VOLTS (V)	54.97
MODULE MAX CURRENT (IMPP)		AMPS (A)	13.14
MIN AMPLITUDE REQUIRED PER NEC		AMPS (A)	16.42

SOLAREGE PL40 POWER OPTIMIZER SPECIFICATIONS & CALCULATIONS			
ITEM	UNIT	SPECIFIED LIMIT	INSTALLED DETAIL
MAX INPUT POWER (WDC MAX)	WATTS (DC)	400	350
MIN INPUT VOLTAGE (VDC MIN)	VOLTS (DC)	8.0	9.97
MAX INPUT VOLTAGE (VDC MAX)	VOLTS (DC)	60	44.55
MAX SHORT-CIRCUIT CURRENT (ISC)	AMPERES (DC)	11.75	10.51
MAX OUTPUT CURRENT	AMPERES (DC)	15	13.13
MAX OUTPUT VOLTAGE	VOLTS (DC)	65*	

*OPTIMIZER OUTPUT VOLTAGE RANGE BETWEEN 60-85 VDC - STRING VOLTAGE IS REGULATED BY THE INVERTER (NOT TO EXCEED 480VDC)

NOTE: CALCULATED VALUES ARE THE ABSOLUTE MIN/MAX OF ALL ARRAYS USING THIS POWER OPTIMIZER CONFIGURATION

-MAXIMUM STRING VOLTAGE IS 480VDC (INVERTER REGULATED)

SOLAR-GEAR SEISMO-4US INVERTER SPECIFICATIONS & CALCULATIONS		
ITEM	NOTE / CALC	UNIT
INVERTER MAX POWER (WAC MAX)	INVERTER SPEC	11400
INVERTER INPUT VOLTAGE (VDC MAX)	INVERTER SPEC	WATTS (AC)
INVERTER OUTPUT VOLTAGE (VAC NOM)	INVERTER SPEC	VOLTS (DC)
INVERTER OUTPUT FREQUENCY	INVERTER SPEC	HERTZ (AC)
INVERTER INPUT CURRENT (IAC)	INVERTER SPEC	69
INVERTER OUTPUT CURRENT (IAC)	INVERTER SPEC	11.7
INVERTER INPUT VOLTAGE (VDC)	INVERTER SPEC	VOLTS (DC)
INVERTER PHASE	INVERTER SPEC	PHASE
COMPLIANCE	INVERTER SPEC	(UL1741/IEEE54)
INVERTER SQUIDGING	INVERTER SPEC	UNPROTECTED
INVERTER QUANTITY	INWAT	1
MODEL & QUANTITY PER BRANCH CIRCUIT	INWAT	QUANTITY
MAX INPUT CURRENT PER STRING (IACMAX)	(WATTS/INVERTER)	15
MAX OUTPUT CURRENT (IACMAX)	(WATTS/INVERTER)	15.3
	(IAC/25)	15.3
		95.38

RESLA POWERWAX BATTERY SPECIFICATIONS			
TYPE	WATT / LAC		SEAL
GRID REGULATION	BATTERY SPEC		AC COUL-ED
AC VOLTAGE (NOMINAL)	BATTERY SPEC	VOLTS (AC)	240
DC VOLTAGE (NOMINAL)	BATTERY SPEC	VOLTS (DC)	240
DC CURRENT (NOMINAL)	BATTERY SPEC	AMPS (DC)	32
DC POWER (NOMINAL)	BATTERY SPEC	WATTS (DC)	320
DC POWER PEAK (10% OFF-GRID/BACKUP)	BATTERY SPEC	WATTS (DC)	35
DC POWER PEAK (10% OFF-GRID/BACKUP)	BATTERY SPEC	WATTS (DC)	5
DC POWER PEAK (10% OFF-GRID/BACKUP)	BATTERY SPEC	WATTS (DC)	7
DC POWER PEAK (10% OFF-GRID/BACKUP)	BATTERY SPEC	WATTS (DC)	5.8
DC POWER PEAK (10% OFF-GRID/BACKUP)	BATTERY SPEC	WATTS (DC)	7.2
DC POWER PEAK (10% OFF-GRID/BACKUP)	BATTERY SPEC	WATTS (DC)	7.2
DC POWER PEAK (10% OFF-GRID/BACKUP)	BATTERY SPEC	WATTS (DC)	10
DC POWER PEAK (10% OFF-GRID/BACKUP)	BATTERY SPEC	WATTS (DC)	32
DC POWER PEAK (10% OFF-GRID/BACKUP)	BATTERY SPEC	WATTS (DC)	32
DC POWER PEAK (10% OFF-GRID/BACKUP)	BATTERY SPEC	WATTS (DC)	30
DC POWER PEAK (10% OFF-GRID/BACKUP)	BATTERY SPEC	WATTS (DC)	50

CONDUCTOR SIZING CALCULATIONS										
KEY	SIZE	C.U./L	INSULATION	CALC. TYPE	APPLICABLE W/O ADJUST.	TEMP. BREAK	FLL. ADJUST.	RESULT (A)	REQ'D (A)	OCBP
A	#12	CU	PV WIRE	COU	30	0.95	0.80	23.0A	15.0A	1
B	#12	CU	THHN/THWN2	TEHM	35	0.96	0.80	23.0A	15.0A	1
C	#6	CU	THHN/THWN2	COU	25	0.96	1.00	18.75	10.0A	1
D	#10	CU	THHN/THWN2	TEHM	35	0.96	1.00	18.75	10.0A	1
E	#1	CU	THHN/THWN2	COU	40	0.96	1.00	38.4A	20.0A	1
F	#1	CU	THHN/THWN2	TEHM	45	0.96	1.00	38.4A	20.0A	1
G	2/0	CU	THHN/THWN2	COU	125	0.96	1.00	160A	100A	1
				TEHM	175			175	100A	1

NOTE: ALL WIRES SIZED #10 OR LESS ARE IN COMPLIANCE WITH 240.4(D)

INTERCONNECTION CALCULATIONS			
- BACKUP GATEWAY			
ITEM	UNIT	QTY	PRICE
BUS RATING	AMPS	200	
MAIN DISCONNECT	AMPS	200	
ALLOWED PV/PER NEC	AMPS	140	
PV DOWD USED	AMPS	60*	

INTERCONNECT ON CALCULATIONS		
SUB-ANEL		
ITEM	UNIT	PANEL
BUS RATING		
	150	
MAIN DISCONNECT	APPS	
	150	
ALLOWED PV PER NEC	APPS	
	350	
PV CORD USED	APPS	60*

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DESIGNEE: HARRISON CITY

FUNK RESIDENCE
200 SW SKYLINE LOOP, FT. WHITE, FL. 32038
SOLAR INDIVIDUAL PERMIT PACKAGE

SYSTEM DETAILS: 10.5KW DC, 14.0KWH AC
• 39 HANWHA Q.PEAR DUO-G8 350, 350W MODULES
• 1 SOLAREDGE SERIAL-IOX-150V INVERTER
• 2 TESLA POWERWALL 2, 13.5KWH BATTERIES

CONTACT: BRIAN LEVERETTE
• BRIAN.LEVERETTE@SOLARIMPACT.COM
• 352.727.0022

ELECTRICAL
CALCS
NOT TO SCALE
PV-E.2

CONTRACTOR

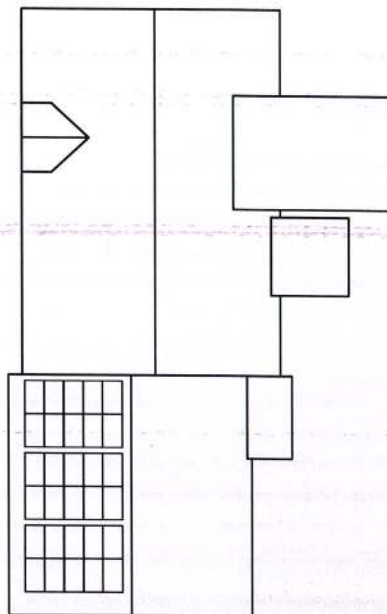


4508 HWY 23RD AVE, SUITE 20
GAINESVILLE FL 32608
SOLARIMPACT.COM • 352.336.6221

DESIGNER



6121 WINCHESTER CIRCLE, BOULDER, CO 80501
888 FEDERAL BLVD, DENVER, CO 80202
WWW.NAMASTE-SOLAR.COM • 303.440.2222



**SAFETY
PLAN**
NOT TO SCALE
PV-N.I

FUNK RESIDENCE
200 SW SKYLINE LOOP, FT. WHITE, FL. 32058
SOLAR INDIVIDUAL PERMIT PACKAGE

- SYSTEM DETAILS: 10.50KW DC, 11.0KW AC
- 36 HANWHA Q-PEAK QKD-G6 350, 350W MODULES
 - 1 SOLAREDGE ZEUROH-US INVERTER
 - 2 TESLA POWERWALL 2, 13.5KWH BATTERIES
- CONTACT: BRIAN LEVETTE
• BRIAN.LEVETTE@SOLARIMPACT.COM
• 352.727.0022

DESIGNER: HARRISON DRY

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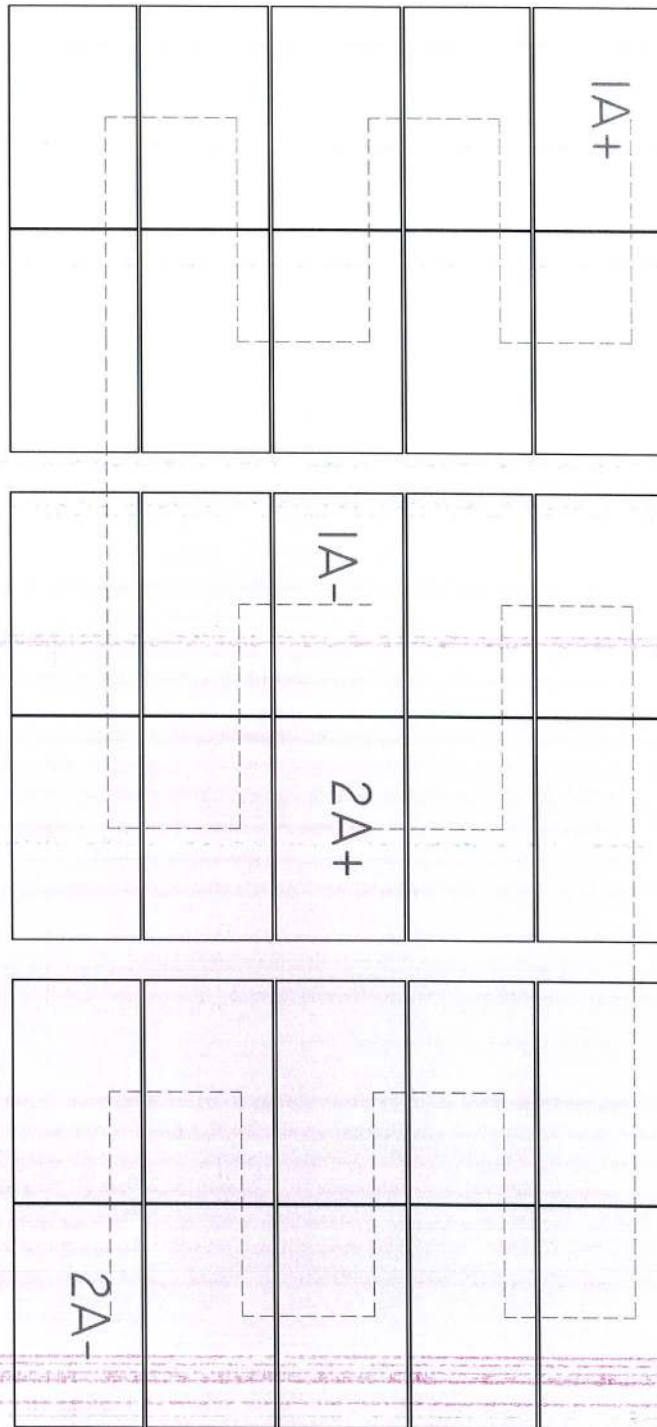


CONTRACTOR

solar impact
4500 HWY 2300 AVE, SUITE 20
DUNNELLVILLE, FL 32028
SOLARIMPACT.COM • 352.591.8221

DESIGNER

namaste solar
6101 WINTERHURST CIRCLE, SUITE 100
SEASIDE, CA 94065
WWW.NAMASTESOLAR.COM • 415.447.2200



STRING DIAGRAM NOT TO SCALE PV-N.2

FUNK RESIDENCE
200 SW SKYLINE LOOP, FT. WHITE, FL, 32038
SOLAR INDIVIDUAL PERMIT PACKAGE

- SYSTEM DETAILS: 10.50KW DC, 14.0KW AC
- 30 HANWHA Q-PEAK DSD-G8 350, 350W MODULES
- 1 SOLAREDGE SEH100H-US INVERTER
- 2 TESLA POWERWALL 2 (13.5KWH) BATTERIES
- CONTACT: BRIAN LEVERETTE
- BRIAN.LEVERETTE@SOLARIMPACT.COM
- 352.727.0022

DESIGNER: JAMISON GUY

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GAINESVILLE, FL 32608
SOLARIMPACT.COM • 352.598.8201

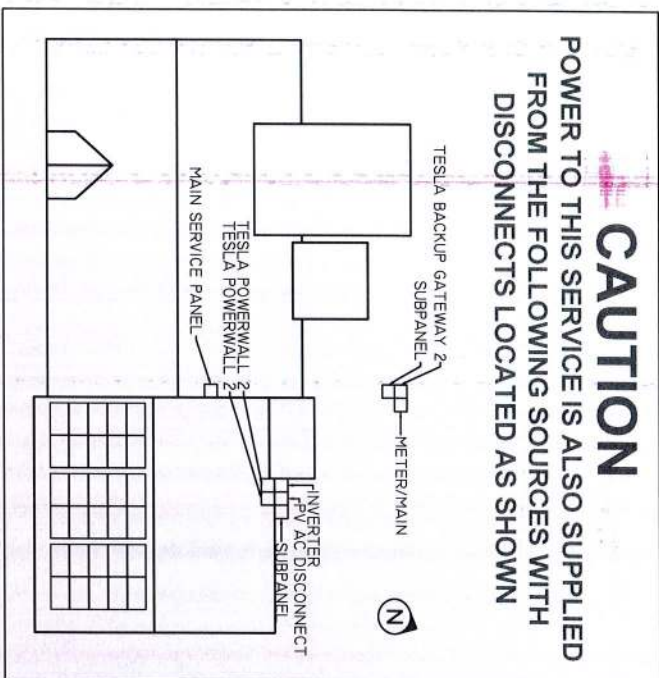
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6171 WINDYBUSH CIRCLE, SUITE 100, GAITHERSBURG, MD 20878
WWW.NAMASTE-SOLAR.COM • 301.471.0022

CAUTION

POWER TO THIS SERVICE IS ALSO SUPPLIED
FROM THE FOLLOWING SOURCES WITH
DISCONNECTS LOCATED AS SHOWN



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PANEL FED BY
PV AND UTILITY

PLACARDS LOCATED ON MAIN PANEL, AND ANY SUBPANEL.

PHOTOVOLTAIC
POWER SOURCE

NEC 690.12(C)(3)(A).
LABELS LOCATED ON ALL PV SOURCE/ OUTPUT ENCLOSURES INSIDE BUILDING

PHOTOVOLTAIC
DC DISCONNECT

NEC 690.12(B).
PLACARD LOCATED ON DC DISCONNECT

PHOTOVOLTAIC
AC DISCONNECT

NEC 690.12(B).
PLACARD LOCATED AT AC DISCONNECT

MAXIMUM SYSTEM VOLTAGE: 480V
MAXIMUM CIRCUIT CURRENT: 30A
MAX RATED OUTPUT CURRENT OF
THE CHARGE CONTROLLER IF INSTALLED

NEC 690.53.
LABEL(S) LOCATED ON DC DISCONNECT

PHOTOVOLTAIC AC DISCONNECT
MAXIMUM AC OPERATING CURRENT: 47.50A
NOMINAL OPERATING AC VOLTAGE: 240V

NEC 690.53.
PLACARD(S) LOCATED ON AC DISCONNECT

PHOTOVOLTAIC
SYSTEM CONNECTED

NEC 690.53.
LABEL(S) LOCATED INSIDE MAIN BUILDING METER

RAPID SHUTDOWN SWITCH
FOR SOLAR PV SYSTEM

NEC 690.54(C)(3).
PLACARD LOCATED ON EXTERIOR AC DISCONNECT

WARNING
ELECTRICAL SHOCK HAZARD
DO NOT TOUCH TERMINALS.
TERMINALS ON BOTH LINE AND
LOAD SIDES MAY BE ENERGIZED
IN THE OPEN POSITION.

NEC 690.12(B).
LABEL(S) LOCATED INSIDE DC DISCONNECT

SOLAR PV SYSTEM EQUIPPED
WITH RAPID SHUTDOWN
TURN RAPID SHUTDOWN
SWITCH TO THE
"OFF" POSITION TO
SHUTDOWN PV SYSTEM
AND AVOID
SHOCK HAZARD
IN ARRAY

NEC 690.12 & 690.54(C)(3)(A).
PLACARD LOCATED AT RAPID SHUTDOWN SERVICE DISCONNECT

WARNING
POWER SOURCE
OUTPUT CONNECTION
DO NOT RELOCATE

NEC 705.12(B)(3)(3)(A).
LABEL LOCATED AT PV PRODUCTION

REC

UTILITY REQUIREMENT.
PLACARD LOCATED ON PV PRODUCTION METER

BIDIRECTIONAL
PRODUCTION METER
BETWEEN INVERTER
AND MAIN PANEL

LABEL AT PRODUCTION METER 1

SINGLE DIRECTION
PRODUCTION METER
BETWEEN INVERTER AND
BACKUP UP LOADS PANEL

LABEL AT PRODUCTION METER 2

BACKED UP
LOADS PANEL

PLACARD LOCATED AT BACKED UP LOADS PANEL

PANEL FED BY PV,
BATTERY, AND UTILITY

NEC 705.12(D)(1).
PLACARD LOCATED ON MAIN PANEL, AND ANY SUBPANEL

PLACARDS
NOT TO SCALE
PV-P.1

FUNK RESIDENCE
200 SW SKYLINE LOOP, FT. WHITE, FL. 32058
SOLAR INDIVIDUAL PERMIT PACKAGE
SYSTEM DETAILS: 10.5kW DC, 16.0kW AC
• 30 KANAWHA Q PEAK DUO GB 350 350W MODULES
• 1 SOLAREDGE SE1600H-US INVERTER
• 2 TESLA POWERWALL 2 10.5kWh BATTERIES
CONTACT: BRIAN LEVERETTE
• BRIAN.LEVERETTE@SOLARIMPACT.COM
• 352.727.0022

DESIGNER: MARISSA GRY

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CONTRACTOR
solar impact
408 HWY 280 AVE, SUITE 10
GAINESVILLE, FL 32608
800.SOLARIMPACT.COM • 866.596.8621
DESIGNER
namasté solar
6127 W. HATCHER CIRCLE, SUITE 10
GAINESVILLE, FL 32608
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