

SPIVEY, STEPHEN PV SYSTEM
131 EDNA JOHN COURT .
DUNN, NC, 28334
APN: 021537 0110 09
JURISDICTION: HARNETT COUNTY (NC)
GENERAL INFORMATION

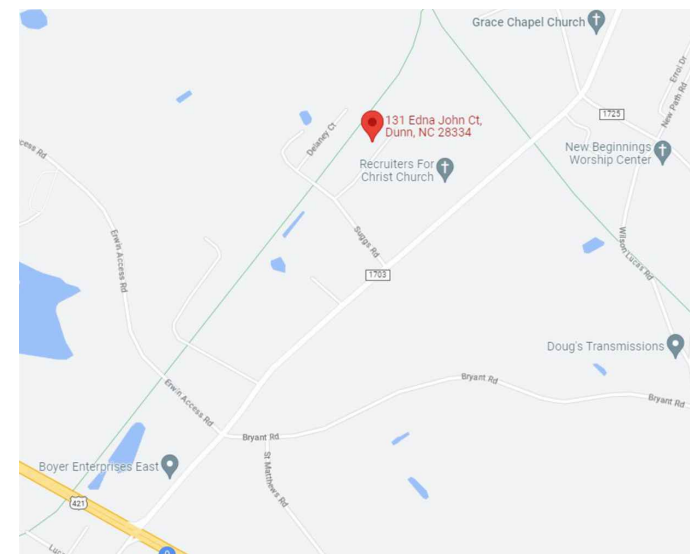
SYSTEM SIZE: 10.400 kW-DC-STC
 10.000 kW-AC
 ROOF PITCHED: 14 DEGREES
 INVERTER: (1) SOLAREEDGE ENERGYHUB SE10000H-US W/ S440 OPTIMIZERS
 (1) SE ENERGYBANK 10K
 MODULES: (26) HY-DH108P8-400B
 STRINGS: (1) x 14 (1) x 12 MODULE SERIES STRINGS
 ELECTRICAL SERVICE RATING: 200A
 PV SYSTEM OVERCURRENT RATING: 100A
 PV SYSTEM DISCONNECT SWITCH: EATON DG223NRB (100A / 2P)
 ROOF TYPE: COMP SHINGLE
 ROOF FRAMING: ENGINEERED TRUSS
 RACKING/RAILING: K2 SYSTEMS / K2RAIL
 ATTACHMENT METHOD: SPLICE FOOT
 ROOF ATTACHMENT : M5 x 60 S.S LAG SCREWS

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VICINITY MAP

SCALE: NTS



AERIAL MAP

SCALE: NTS



NOTES

EQUIPMENT LOCATION

- ALL EQUIPMENT SHALL MEET MINIMUM SETBACKS AS REQUIRED BY NEC 110.26.
- WIRING SYSTEMS INSTALLED IN DIRECT SUNLIGHT MUST BE RATED FOR EXPECTED OPERATING TEMPERATURE AS SPECIFIED BY NEC690.31(A),(C) AND NEC TABLES 310.15(B)(2)(A) AND 310.15(B)(3)(C).
- JUNCTION AND PULL BOXES PERMITTED INSTALLED UNDER PV MODULES ACCORDING TO NEC 690.34.
- ADDITIONAL AC DISCONNECT(S) SHALL BE PROVIDED WHERE THE INVERTER IS NOT WITHIN SIGHT OF THE AC SERVICING DISCONNECT.
- ALL EQUIPMENT SHALL BE INSTALLED ACCESSIBLE TO QUALIFIED PERSONNEL ACCORDING TO NEC APPLICABLE CODES.
- ALL COMPONENTS ARE LISTED FOR THEIR PURPOSE AND RATED FOR OUTDOOR USAGE WHEN APPROPRIATE.

WIRING & CONDUIT NOTES

- ALL CONDUITS AND WIRE WILL BE LISTED AND APPROVED FOR THEIR PURPOSE. CONDUIT AND WIRE SPECIFICATIONS ARE BASED ON MINIMUM CODE REQUIREMENTS AND ARE NOT MEANT TO LIMIT UP-SIZING.
- CONDUCTORS SIZED ACCORDING TO NEC 690.8, NEC 690.7.
- DC WIRING LIMITED TO MODULE FOOTPRINT. MICRO INVERTER WIRING SYSTEMS SHALL BE LOCATED AND SECURED UNDER THE ARRAY WITH SUITABLE WIRING CLIPS.
- AC CONDUCTORS COLORED OR MARKED AS FOLLOWS: PHASE A OR L1- BLACK, PHASE B OR L-2 RED, OR OTHER CONVENTION IF THREE PHASE, PHASE C OR L3-BLUE, YELLOW, ORANGE, OR OTHER CONVENTION NEUTRAL- WHITE OR GREY IN 4-WIRE DELTA CONNECTED SYSTEMS THE PHASE WITH THE HIGHER VOLTAGE TO BE MARKED ORANGE NEC 110.15.

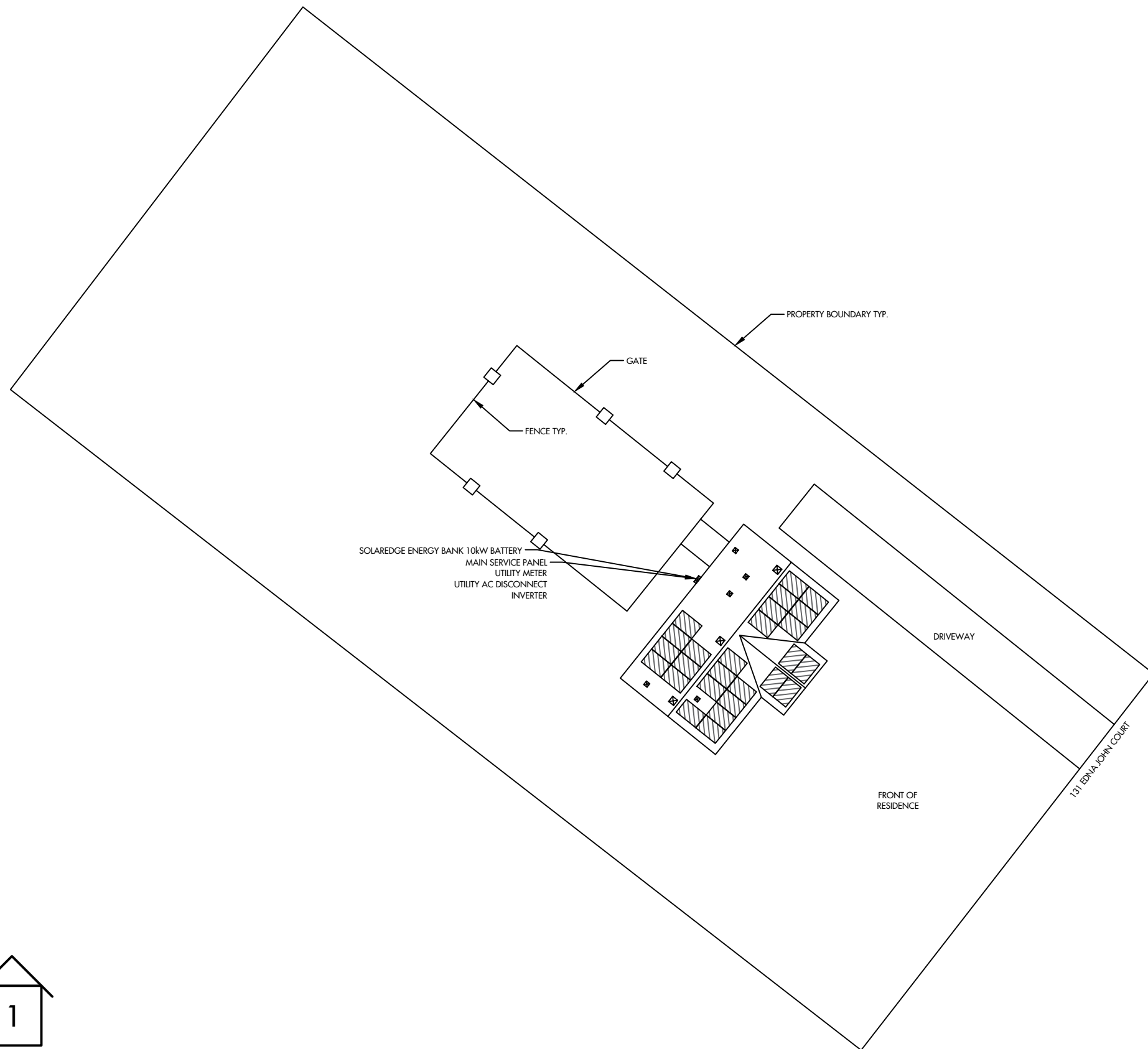
GENERAL NOTES

- MODULES ARE LISTED UNDER UL 1703 AND CONFORM TO THE STANDARDS.
- INVERTERS ARE LISTED UNDER UL 1741 AND CONFORM TO THE STANDARDS.
- DRAWINGS ARE DIAGRAMMATIC, INDICATING GENERAL ARRANGEMENT OF THE PV SYSTEM AND THE ACTUAL SITE CONDITION MIGHT VARY.
- WORKING CLEARANCES AROUND THE NEW PV ELECTRICAL EQUIPMENT WILL BE MAINTAINED IN ACCORDANCE WITH NEC 110.26.
- ALL GROUND WIRING CONNECTED TO THE MAIN SERVICE GROUNDING IN MAIN SERVICE PANEL/SERVICE COMPONENT.
- ALL CONDUCTORS SHALL BE 600V, 75° C STANDARD COPPER UNLESS OTHERWISE NOTED.
- WHEN REQUIRED, A LADDER SHALL BE IN PLACE FOR INSPECTION IN COMPLIANCE WITH OSHA REGULATIONS.
- THE SYSTEM WILL NOT BE INTERCONNECTED BY THE CONTRACTOR UNTIL APPROVAL FROM THE LOCAL JURISDICTION AND/OR THE UTILITY.
- ROOF ACCESS POINT SHALL BE LOCATED IN AREAS THAT DO NOT REQUIRE THE PLACEMENT OF GROUND LADDERS OVER OPENINGS SUCH AS WINDOWS WHERE THE ACCESS POINT DOES NOT CONFLICT WITH OVERHEAD OBSTRUCTIONS SUCH AS TREES, WIRES OR SIGNS.
- PV ARRAY COMBINER/JUNCTION BOX PROVIDES TRANSITION FROM ARRAY WIRING TO CONDUIT WIRING.



PROJECT NOTES

1. UTILITY SHALL HAVE 24HR UNRESTRICTED ACCESS TO ALL PHOTOVOLTAIC COMPONENTS LOCATED AT SES EQUIPMENT
2. NO LOCKED GATES, DOGS, ETC SHALL IMPEDE ACCESS TO SES EQUIPMENT
3. WORKSPACE IN FRONT OF AC ELECTRICAL SYSTEM COMPONENTS SHALL BE IN ACCORDANCE WITH DUKE ENERGY PROGRESS (NC) AND NEC REQUIREMENTS.



ARRAY INFORMATION

AR-01

QUANTITY: 8
MOUNTING TYPE: FLUSH
ARRAY TILT: 14°
AZIMUTH: 129°
ATTACHMENT SPACING: 4' STAGGERED
ROOF TYPE: COMP SHINGLE

AR-02

QUANTITY: 7
MOUNTING TYPE: FLUSH
ARRAY TILT: 14°
AZIMUTH: 129°
ATTACHMENT SPACING: 4' STAGGERED
ROOF TYPE: COMP SHINGLE

AR-03

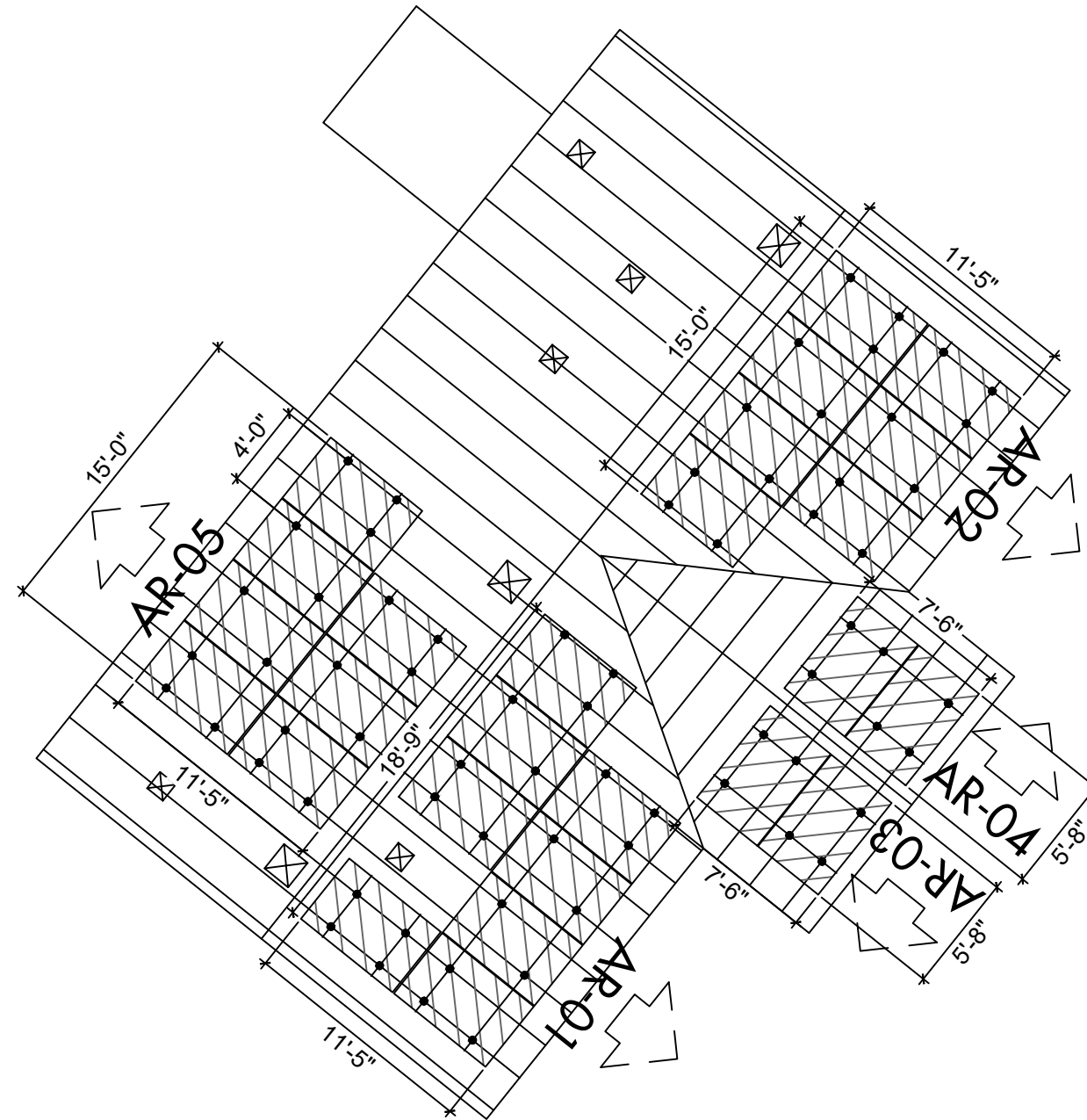
QUANTITY: 2
MOUNTING TYPE: FLUSH
ARRAY TILT: 22°
AZIMUTH: 219°
ATTACHMENT SPACING: 4' STAGGERED
ROOF TYPE: COMP SHINGLE

AR-04

QUANTITY: 2
MOUNTING TYPE: FLUSH
ARRAY TILT: 22°
AZIMUTH: 39°
ATTACHMENT SPACING: 4' STAGGERED
ROOF TYPE: COMP SHINGLE

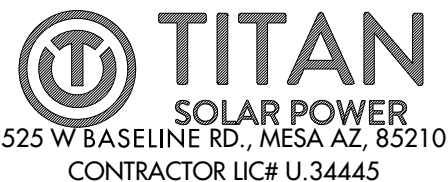
AR-05

QUANTITY: 7
MOUNTING TYPE: FLUSH
ARRAY TILT: 14°
AZIMUTH: 309°
ATTACHMENT SPACING: 4' STAGGERED
ROOF TYPE: COMP SHINGLE



NOTES

- ROOF VENTS, SKYLIGHTS, WILL NOT BE COVERED UPON PV INSTALLATION
- TOTAL ROOF AREA = 1467 SQ-FT
- TOTAL ARRAY AREA = 546.59 SQ-FT
- ARRAY COVERAGE = 37.26%
-
-



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(26) HY-DH108P8-400B
(1) SOLAREGE ENERGYHUB SE10000H-US
(1) SE ENERGYBANK 10K
10.400 kW DC SYSTEM SIZE
10.000 kW AC SYSTEM SIZE

SCALE: 1/8" = 1'-0"
DATE: 3/20/2023
REV:A
DRAWN BY: JS

SEAL:

PV LAYOUT
PV 3

MODULE & RACKING INFORMATION

MODULE: HY-DH108P8-400B
MODULE WEIGHT: 49.80 LBS
MODULE DIMENSIONS: 67.8" x 44.65" x 1.5"
RACKING/RAIL: K2 SYSTEMS / K2RAIL
ROOF ATTACHMENT : M5 x 60 S.S LAG SCREWS

ROOF & FRAMING INFORMATION

MATERIAL: COMP SHINGLE
RAFTER/TRUSS SIZE: 2" x 2"
RAFTER/TRUSS SPACING: 2'

ARRAY 01: 8 MODULES

UPLIFT = 5045.45 LBS.
POINT LOAD = 19.38 LBS. PER MOUNTING POINT
PULLOUT STRENGTH = 6930.00 LBS.
DISTRIBUTED LOAD = 2.54 PSF
MODULE & RACKING WEIGHT = 426.40 LBS

ARRAY 04: 2 MODULES

UPLIFT = 1261.36 LBS.
POINT LOAD = 17.77 LBS. PER MOUNTING POINT
PULLOUT STRENGTH = 1890.00 LBS.
DISTRIBUTED LOAD = 2.54 PSF
MODULE & RACKING WEIGHT = 106.60 LBS

ARRAY 02: 7 MODULES

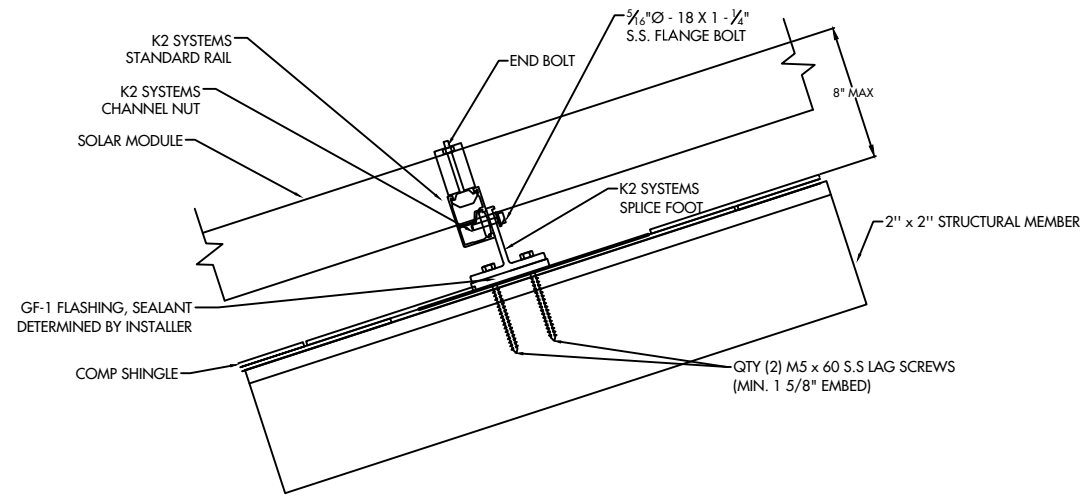
UPLIFT = 4414.77 LBS.
POINT LOAD = 20.73 LBS. PER MOUNTING POINT
PULLOUT STRENGTH = 5670.00 LBS.
DISTRIBUTED LOAD = 2.54 PSF
MODULE & RACKING WEIGHT = 373.10 LBS

ARRAY 05: 7 MODULES

UPLIFT = 4414.77 LBS.
POINT LOAD = 20.73 LBS. PER MOUNTING POINT
PULLOUT STRENGTH = 5670.00 LBS.
DISTRIBUTED LOAD = 2.54 PSF
MODULE & RACKING WEIGHT = 373.10 LBS

ARRAY 03: 2 MODULES

UPLIFT = 1261.36 LBS.
POINT LOAD = 17.77 LBS. PER MOUNTING POINT
PULLOUT STRENGTH = 1890.00 LBS.
DISTRIBUTED LOAD = 2.54 PSF
MODULE & RACKING WEIGHT = 106.60 LBS



PV MODULE

HY-DH108P8-400B
 W = 400 W
 ISC = 13.79 ADC
 VOC = 37.07 VDC
 IMP = 12.90 ADC
 VMP = 31.21 VDC
 TVOC = -0.304% / °C

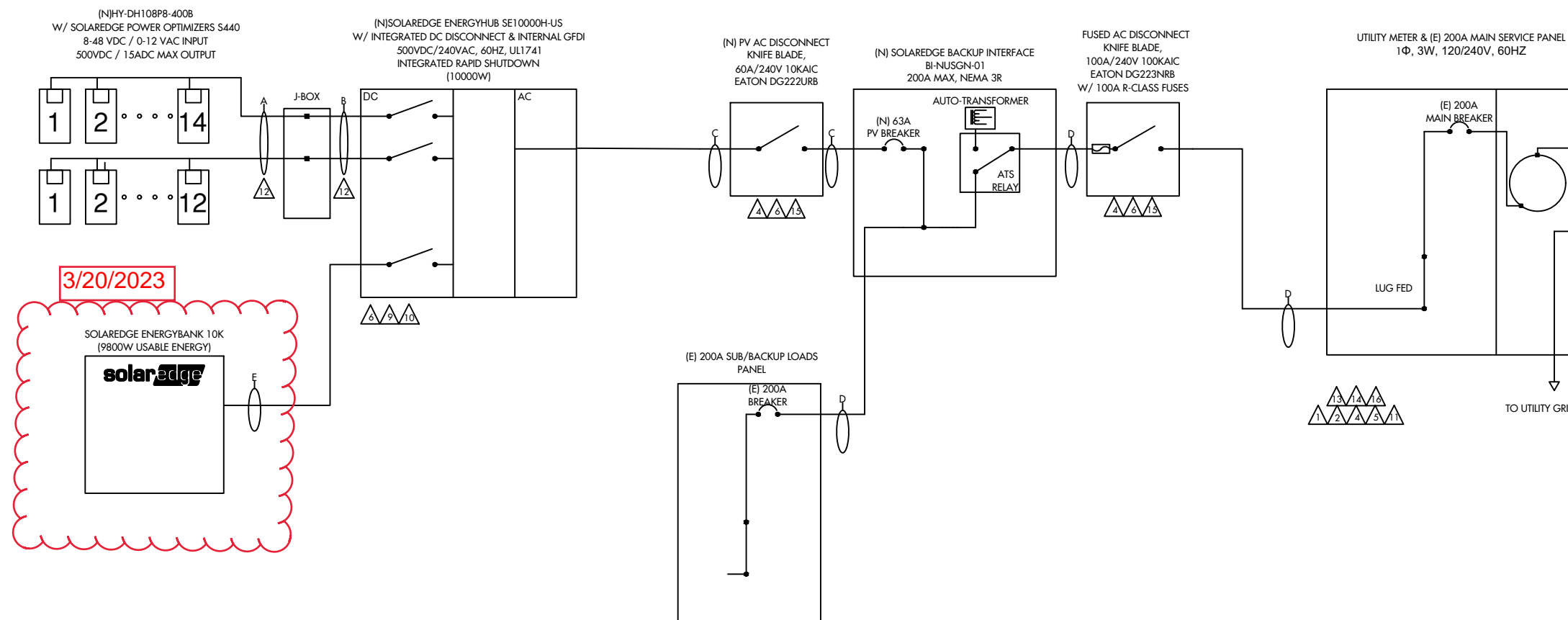
WIRE SCHEDULE

A - (4) #10 AWG-CU PV WIRE (HR)
 (1) #10 AWG-CU BARE COPPER WIRE (GND)
 IN FREE AIR
 B - (4) #10 AWG-CU THWN-2 WIRE (HR)
 (1) #10 AWG-CU THWN-2 WIRE (GND)
 3/4" EMT

C - (3) #6 AWG-CU THWN-2 WIRE (HR)
 (1) #8 AWG-CU THWN-2 WIRE (GND)
 3/4" EMT
 D - (3) #3 AWG-CU THWN-2 WIRE (HR)
 (1) #6 AWG-CU THWN-2 WIRE (GND)
 1" EMT
 E - (3) #6 AWG-CU THWN-2 WIRE (HR)
 (1) #8 AWG-CU THWN-2 WIRE (GND)
 3/4" EMT

MAIN SERVICE PANEL

BUS RATING = 200A
 MAX. CURRENT RATING = 240A (200A X 1.2)
 SOLAR BACKFEED = 53A
 MAIN BREAKER = 200A
 TOTAL = 253A



WIRE SIZE CALCULATIONS

TEMP CORRECTION FACTOR: 0.87 (43° AMBIENT)
 ROOFTOP TEMP CORRECTION FACTOR: 1.00 (43° ADJUSTED)
 (2" ABOVE ROOFTOP / 0° TEMP ADDERS - AS OCCURS)
 (TEMP DATA TAKEN FROM ASHRAE 2% AVG HIGH TEMP)

DC WIRING
 CONDUIT FILL FACTOR = 0.80
 OPTIMIZER MAX. CURRENT = 18.75A DC (15.00A X 1 X 1.25)
 #10- AWG CU. AMPACITY = 47.85A (55A X 0.87)
 FREE AIR
 #10 - AWG CU. AMPACITY = 27.84A (40A X 0.87 X 0.80)
 ROOFTOP CONDUIT

AC WIRING
 CONDUIT FILL FACTOR = 1 (3) CONDUCTORS
 MAX. INVERTER CURRENT = 42A (PER INVERTER SPECS)
 MIN. INVERTER OCP = 52.5A (42A X 1.25)
 INVERTER OCP = 60A
 #6 - AWG CU AMPACITY = 65.25A (75A X 1 X 0.87)



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 (1) SOLAREEDGE ENERGYHUB SE10000H-US
 (1) SE ENERGYBANK 10K
 10.400 kW DC SYSTEM SIZE
 10.000 kW AC SYSTEM SIZE

DATE: 3/20/2023
 REV:A
 DRAWN BY: JS

SEAL:

ONE LINE
 PV 5

PV MODULE

HY-DH108P8-400B
 W = 400 W
 ISC = 13.79 ADC
 VOC = 37.07 VDC
 IMP = 12.90 ADC
 VMP = 31.21 VDC
 TVOC = -0.304% / °C

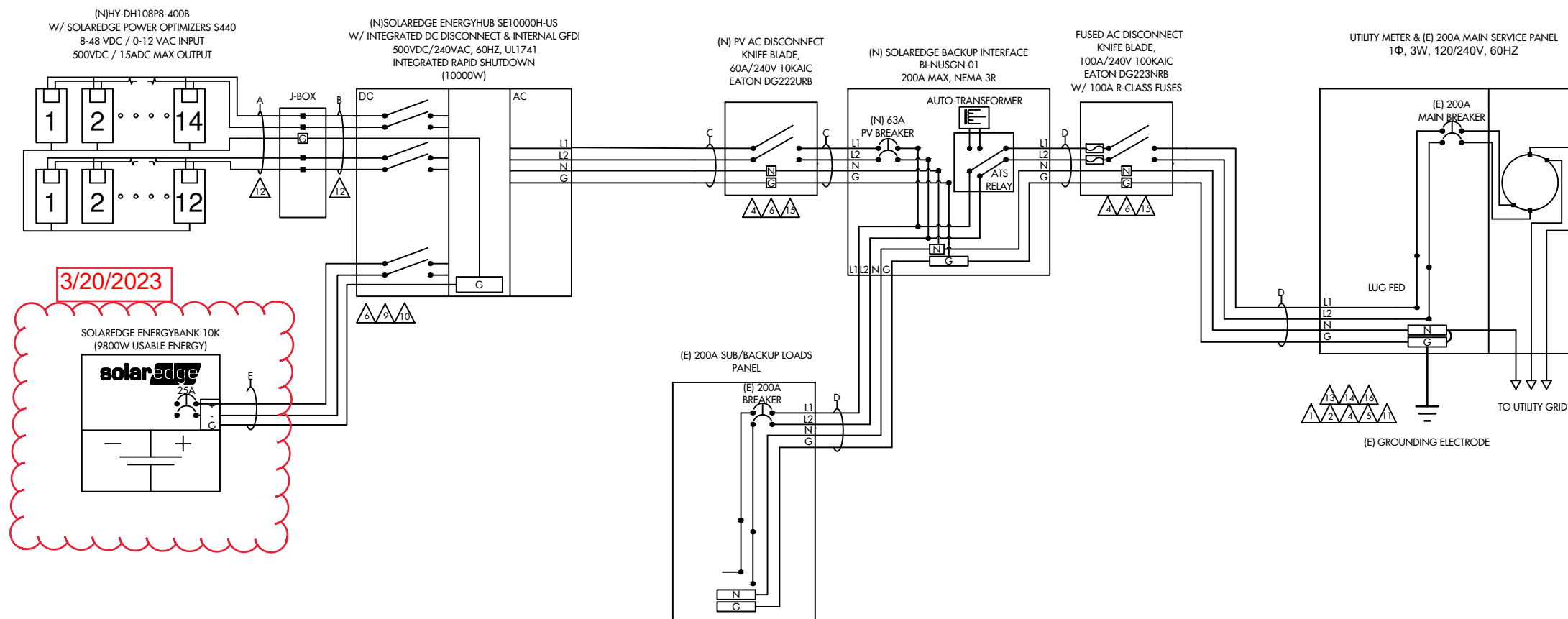
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 B - (4) #10 AWG-CU THWN-2 WIRE (HR)
 (1) #10 AWG-CU THWN-2 WIRE (GND)
 3/4" EMT

C - (3) #6 AWG-CU THWN-2 WIRE (HR)
 (1) #8 AWG-CU THWN-2 WIRE (GND)
 3/4" EMT
 D - (3) #3 AWG-CU THWN-2 WIRE (HR)
 (1) #6 AWG-CU THWN-2 WIRE (GND)
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 (1) #8 AWG-CU THWN-2 WIRE (GND)
 3/4" EMT

MAIN SERVICE PANEL

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WIRE SIZE CALCULATIONS

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 ROOFTOP TEMP CORRECTION FACTOR: 1.00 (43° ADJUSTED)
 (2" ABOVE ROOFTOP / 0° TEMP ADDERS - AS OCCURS)
 (TEMP DATA TAKEN FROM ASHRAE 2% AVG HIGH TEMP)

DC WIRING
 CONDUIT FILL FACTOR = 0.80
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 #10- AWG CU. AMPACITY = 47.85A (55A X 0.87)
 FREE AIR
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 CONDUIT FILL FACTOR = 1 (3) CONDUCTORS
 MAX. INVERTER CURRENT = 42A (PER INVERTER SPECS)
 MIN. INVERTER OCP = 52.5A (42A X 1.25)
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 #6 - AWG CU AMPACITY = 65.25A (75A X 1 X 0.87)



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(26) HY-DH108P8-400B
 (1) SOLAREDEGE ENERGYHUB SE10000H-US
 (1) SE ENERGYBANK 10K
 10.400 kW DC SYSTEM SIZE
 10.000 kW AC SYSTEM SIZE

DATE: 3/20/2023
 REV:A
 DRAWN BY: JS

SEAL:

THREE LINE
 PV 6

1

CAUTION
PHOTOVOLTAIC SYSTEM CIRCUIT IS BACKFED

LOCATION: BACKFED BREAKER
CODE REF: NEC 705.12(4)

2

WARNING
INVERTER OUTPUT CONNECTION:
DO NOT RELOCATE THIS
OVERCURRENT DEVICE

LOCATION: BACKFED BREAKER
CODE REF: 2017 NEC 705.12(2)(3)(b)

3

WARNING
A GENERATION SOURCE IS CONNECTED TO THE SUPPLY
(UTILITY) SIDE OF THE MAIN SERVICE DISCONNECT. FOLLOW
THE PROPER LOCK-OUT/TAG-OUT PROCEDURES TO ENSURE
THE PHOTOVOLTAIC SYSTEM UTILITY DISCONNECT SWITCH IS
OPENED PRIOR TO PERFORMING WORK ON THIS DEVICE

LOCATION: (IF APPLICABLE)
SUPPLY SIDE TAP
LOAD PANEL
CODE REF: UTILITY

4

PHOTOVOLTAIC AC DISCONNECT
RATED AC OPERATING CURRENT: 42A AC
NOMINAL OPERATING AC VOLTAGE: 240VAC

LOCATION: MAIN PANEL
AC DISCONNECT(S)
CODE REF: NEC 690.54

5

**RAPID SHUTDOWN
SWITCH FOR
SOLAR PV SYSTEM**

LOCATION: MAIN PANEL (EXTERIOR)
PV BREAKER (INTERIOR)
CODE REF: NEC 690.56(C)(3)

6

WARNING
ELECTRICAL SHOCK HAZARD
TERMINALS ON BOTH LINE AND
LOAD SIDES MAY BE ENERGIZED
IN THE OPEN POSITION

LOCATION: COMBINER PANEL
AC DISCONNECT
JUNCTION BOX
INVERTER(S)
CODE REF: NEC 690.13(B)

7

**PHOTOVOLTAIC
SYSTEM METER**

LOCATION: DEDICATED KWH METER
CODE REF: NEC 690.4(B) UTILITY

8

WARNING
PHOTOVOLTAIC SYSTEM
COMBINER PANEL
DO NOT ADD LOADS

LOCATION: AC COMBINER PANEL
CODE REF: NEC 690.13(B)

9

PHOTOVOLTAIC SYSTEM DC DISCONNECT
MAXIMUM VOLTAGE: 480VDC
MAXIMUM CIRCUIT CURRENT: 15.0ADC
MAX. RATED OUTPUT CURRENT OF
THE CHARGE CONTROLLER OR DC-
TO-DC- CONVERTER (IF INSTALLED) 15.0ADC

LOCATION: DC DISCONNECT
INVERTER
CODE REF: UTILITY

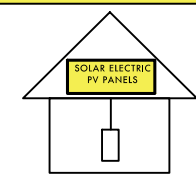
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WARNING
ELECTRICAL SHOCK HAZARD
TERMINALS ON BOTH LINE AND
LOAD SIDES MAY BE ENERGIZED
IN THE OPEN POSITION
DC VOLTAGE IS ALWAYS PRESENT
WHEN SOLAR MODULES ARE
EXPOSED TO SUNLIGHT

LOCATION: DC DISCONNECT, COMBINE BOX
CODE REF: NEC 690.13(B)

11

**SOLAR PV SYSTEM EQUIPPED
WITH RAPID SHUTDOWN**
TURN RAPID SHUTDOWN
SWITCH TO THE "OFF"
POSITION TO SHUT DOWN
PV SYSTEM AND REDUCE
SHOCK HAZARD IN THE
ARRAY.



LOCATION: MAIN SERVICE (OUTSIDE COVER)
CODE REF: NEC 690.12
NEC 690.56(C)(1)(a)
YELLOW STICKER

12

WARNING PHOTOVOLTAIC POWER SOURCE

LOCATION: DC CONDUIT
JUNCTION BOX
NO MORE THAN 10FT
CODE REF: NEC 690.31(G)(3)
NEC 690.31(G)(4)
REFLECTIVE AND WEATHER RESISTANT

13

CAUTION
DUAL POWER SOURCE
SECOND SOURCE IS
PHOTOVOLTAIC

LOCATION: SERVICE METER
MAIN PANEL

14

WARNING
INVERTER OUTPUT CONNECTION
DO NOT RELOCATE THIS
OVERCURRENT DEVICE

LOCATION: (IF APPLICABLE)
SERVICE PANEL
CODE REF: NEC 705.12(7)

15

**PHOTOVOLTAIC SYSTEM
UTILITY DISCONNECT SYSTEM**

LOCATION: AC DISCONNECT
CODE REF: UTILITY

16

PV SOLAR BREAKER
DO NOT RELOCATE THIS
OVERCURRENT DEVICE

LOCATION: MAIN PANEL (EXTERIOR)
PV BREAKER (INTERIOR)
CODE REF: NEC 705.12(B)(2)(3)(B)

LABEL REQUIRES CAPITALIZED LETTERS WITH A MINIMUM HEIGHT OF 3/8 INCH, WHITE LETTERS ON RED BACKGROUND
LABELS SHALL BE PLACED ON INTERIOR AND EXTERIOR DC CONDUIT, RACEWAYS, ENCLOSURES, AND CABLE ASSEMBLIES
EVERY 10 FEET, WITHIN 1 FOOT OF TURNS OR BENDS AND WITHIN 1 FOOT ABOVE AND BELOW PENETRATIONS OF
ROOF/CEILING ASSEMBLIES, WALLS OR BARRIERS.



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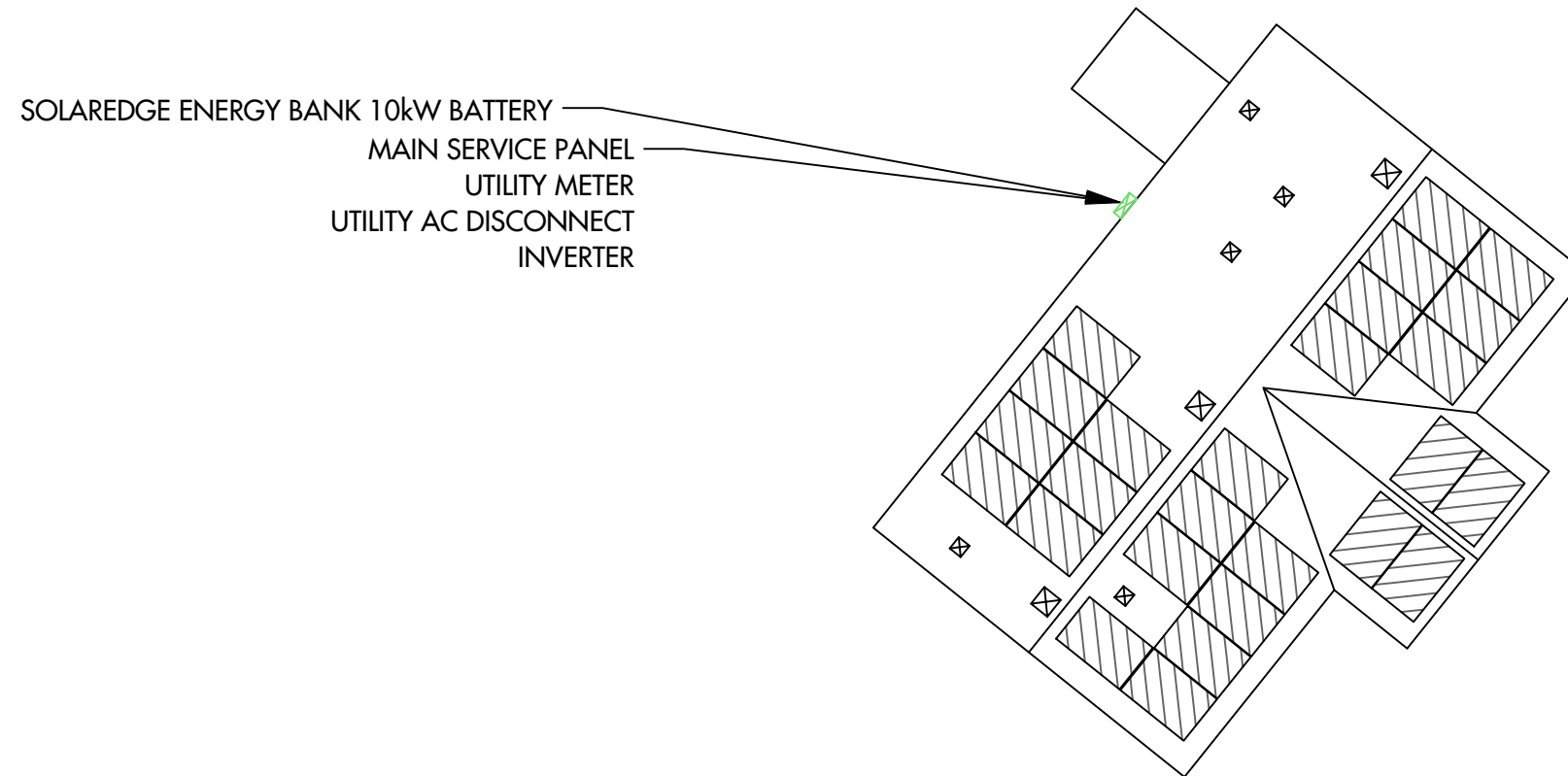
DATE: 3/20/2023
REV: A
DRAWN BY: JS

SEAL:


LABELS
PV 7

CAUTION

POWER TO THIS BUILDING IS
SUPPLIED FROM THE FOLLOWING
SOURCES WITH DISCONNECTS AS
SHOWN:



DIRECTORY PLAQUE IN
ACCORDANCE WITH
NEC690.56(A)(B), 705.10

**TITAN**
SOLAR POWER
525 W BASELINE RD., MESA AZ, 85210
CONTRACTOR LIC# U.34445

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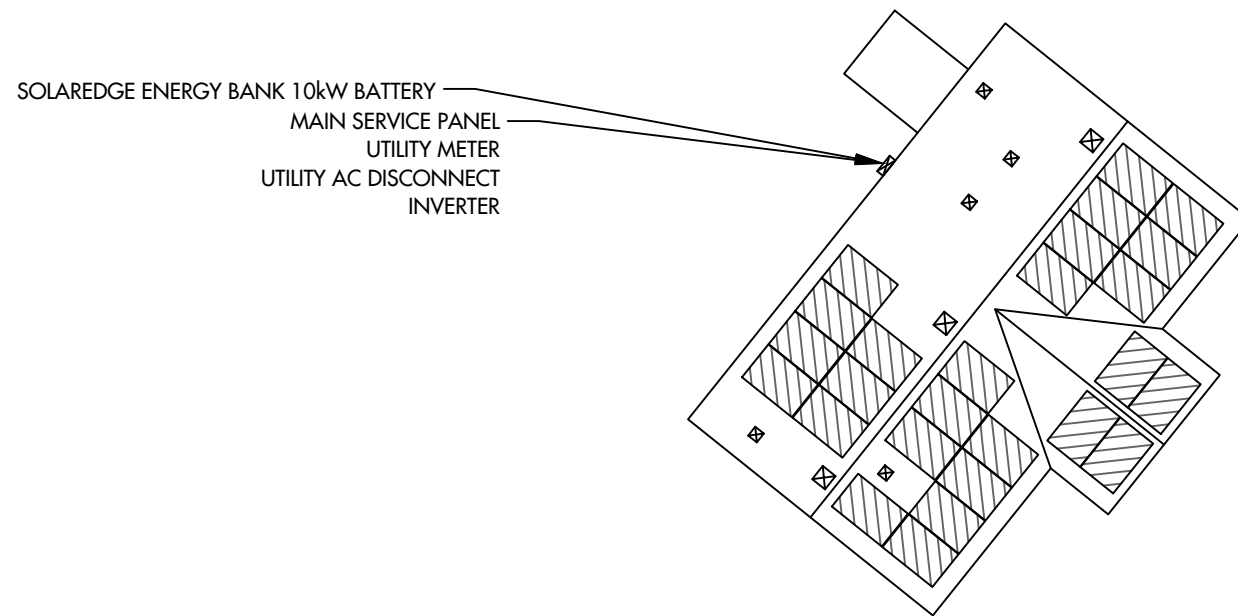


DATE: 3/20/2023
REV: A
DRAWN BY: JS

SEAL:

PLACARD
PV 8

JOB SAFETY PLAN



LOCATION OF NEAREST URGENT CARE FACILITY

NAME:

ADDRESS:

PHONE NUMBER:

NOTES:

- INSTALLER SHALL DRAW IN DESIGNATED SAFETY AREA AROUND HOME
- INSTALLER SHALL UPDATE NAME, ADDRESS, AND PHONE NUMBER OF NEAREST URGENT CARE FACILITY RELATIVE TO THE JOB SITE BEFORE STARTING WORK.

PRINT NAME	INITIAL	YES	NO

Single Phase Energy Hub Inverter with Prism Technology For North America

SE3000H-US / SE3800H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US⁽¹⁾



12-25 YEAR WARRANTY

HOME BACKUP

Optimized battery storage with HD-Wave technology

- Record-breaking 99% weighted efficiency with 200% DC oversizing
- Multi-inverter, scalable storage solution with enhanced battery power up to 10kW
- Small, lightweight, and easy to install
- Integrated arc fault protection and rapid shutdown for NEC 2014, NEC 2017 and NEC 2020, per article 690.11 and 690.12
- Modular design, future ready with optional upgrades to:
 - DC-coupled storage for full or partial home backup
 - Built-in consumption monitoring
 - Direct connection to the SolarEdge smart EV charger
- Embedded revenue grade production data, ANSI C12.20 Class 0.5

Single Phase Energy Hub Inverter with Prism Technology For North America

SE3000H-US / SE3800H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US⁽¹⁾

	SE3000H-US	SE3800H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	UNITS	
OUTPUT - AC ON GRID								
Rated AC Power	3000	3800 @ 240V / 3300 @ 208V	6000 @ 240V / 5000 @ 208V	7600	10000	11400 @ 240V / 10000 @ 208V	W	
Maximum AC Power Output	3000	3800 @ 240V / 3300 @ 208V	6000 @ 240V / 5000 @ 208V	7600	10000	11400 @ 240V / 10000 @ 208V	W	
AC Frequency Range (min - nom - max)	59.3 - 60 - 60.5 ⁽²⁾							
Maximum Continuous Output Current @ 240V	12.5	16	25	32	42	47.5	A	
Maximum Continuous Output Current @ 208V	-	16	24	-	-	48.5	A	
GFDI Threshold	1							
Total Harmonic Distortion (THD)	<3							
Power Factor	1, adjustable -0.85 to 0.85							
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes							
Charge Battery from AC (if allowed)	Yes							
Typical Nighttime Power Consumption	<2.5							
OUTPUT - AC BACKUP⁽³⁾								
Rated AC Power in Backup Operation ⁽⁴⁾	3000	3800 / 7600*	6000	7600 / 10300*	10000	10300	W	
AC L-L Output Voltage Range in Backup	211 - 264							
AC L-N Output Voltage Range in Backup	105 - 132							
AC Frequency Range in Backup (min - nom - max)	55 - 60 - 65							
Maximum Continuous Output Current in Backup Operation	12.5	16 / 32*	25	32 / 43*	42	43	A	
GFDI	1							
THD	<5							
OUTPUT - SMART EV CHARGER AC								
Rated AC Power	9600							
AC Output Voltage Range	211 - 264							
On-Grid AC Frequency Range (min - nom - max)	59.3 - 60 - 60.5							
Maximum Continuous Output Current @240V (grid, PV and battery)	40							
INPUT - DC (PV AND BATTERY)								
Transformer-less, Ungrounded	Yes							
Max Input Voltage	480							
Nom DC Input Voltage	380							
Reverse-Polarity Protection	Yes							
Ground-Fault Isolation Detection	600kΩ Sensitivity							
INPUT - DC (PV)								
Maximum DC Power @ 240V	6000	7600 / 15200*	12000	15200 / 22800*	22000	22800	W	
Maximum DC Power @ 208V	-	6600	10000	-	-	20000	W	
Maximum Input Current ⁽⁵⁾ @ 240V	8.5	10.5 / 20*	16.5	20 / 31*	27	31	Adc	
Maximum Input Current ⁽⁵⁾ @ 208V	-	9	13.5	-	-	27	Adc	
Max. Input Short Circuit Current	45							
Maximum Inverter Efficiency	99	99.2						%
CEC Weighted Efficiency	99						99 @ 240V / 98.5 @ 208V	%
2-pole Disconnection	Yes							

* Supported with PN SExxxxH-USMxxxxx or SExxxxH-USMxxxxx
 (1) These specifications apply to inverters with part numbers SExxxxH-USMxxxxx or SExxxxH-USNxxxxx and connection unit model number DCD-1PH-US-PH-F-x
 (2) For other regional settings please contact SolarEdge support
 (3) Not designed for stand-alone applications and requires AC for commissioning. Backup functionality is only supported for 240V grid
 (4) Rated AC power in Backup Operation are valid for installations with multiple inverters. For a single backup inverter operation, rated AC power in Backup is 90% of the value stated
 (5) A higher current source may be used; the inverter will limit its input current to the values stated

Single Phase Energy Hub Inverter with Prism Technology For North America

SE3000H-US / SE3800H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US⁽¹⁾

	SE3000H-US	SE3800H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	UNITS
INPUT - DC (BATTERY)							
Supported Battery Types	SolarEdge Energy Bank, LG RESU Prime ⁽⁶⁾						
Number of Batteries per Inverter	Up to 3 SolarEdge Energy Bank, up to 2 LG RESU Prime						
Continuous Power ⁽⁷⁾	6000	7600	10000				W
Peak Power ⁽⁸⁾	6000	7600	10000				W
Max Input Current	16	20	26.5				Adc
2-pole Disconnection	Yes						
SMART ENERGY CAPABILITIES							
Consumption Metering	Built-in ⁽⁹⁾						
Backup & Battery Storage	With Backup interface (purchased separately) for service up to 200A; Up to 3 inverters						
EV Charging	Direct connection to Smart EV charger						
ADDITIONAL FEATURES							
Supported Communication Interfaces	RS485, Ethernet, Cellular ⁽¹⁰⁾ , Wi-Fi (optional), SolarEdge Energy Net (optional)						
Revenue Grade Metering, ANSI C12.20	Built-in ⁽⁹⁾						
Integrated AC, DC and Communication Connection Unit	Yes						
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi Access Point for local connection						
DC Voltage Rapid Shutdown (PV and Battery)	Yes, according to NEC 2014, NEC 2017 and NEC 2020 690.12						
STANDARD COMPLIANCE							
Safety	UL1741, UL1741 SA, UL1741 PCS, UL1699B, UL1998, UL9540, CSA 22.2						
Grid Connection Standards	IEEE1547, Rule 21, Rule 14H						
Emissions	FCC part 15 class B						
INSTALLATION SPECIFICATIONS							
AC Output and EV AC Output Conduit Size / AWG Range	1" maximum / 14-4 AWG						
DC Input (PV and Battery) Conduit Size / AWG Range	1" maximum / 14-6 AWG						
Dimensions with Connection Unit (H x W x D)	17.7 x 14.6 x 6.8 / 450 x 370 x 174		17.7 x 14.6 x 6.8 / 450 x 370 x 174		17.7 x 14.6 x 6.8 / 450 x 370 x 174		in / mm
Weight with Connection Unit	26 / 11.8		26 / 11.8		30.2 / 13.7*		lb / kg
Noise	< 25	< 25 / < 50*	< 25	< 50			dB(A)
Cooling	Natural Convection						
Operating Temperature Range	-40 to +140 / -40 to +60 ⁽¹⁰⁾						
Protection Rating	NEMA 4						

(6) The part numbers SExxxxH-USMxxxxx only support the SolarEdge Energy Bank. The part numbers SExxxxH-USNxxxxx support both SolarEdge Energy Bank and LG RESU Prime batteries
 (7) Requires supporting inverter firmware
 (8) Discharge power is limited up to the inverter rated AC power for on-grid and backup applications
 (9) For consumption metering, current transformers should be ordered separately. SECT-SPR-225A-T-20 or SEACT10750-400NA-20 units per box. Revenue grade metering is only for production metering
 (10) Information concerning the Data Plan's terms & conditions is available in the following link: <https://www.solaredge.com/sites/default/files/se-communication-plan-terms-and-conditions-eng.pdf>
 (10) Full power up to at least 50°C / 122°F; for power de-rating information refer to: <https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf>

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LAT:35.339800, LON:-78.652052
TSP152526

(26) HY-DH108P8-400B
(1) SOLAREGE ENERGYHUB SE10000H-US
(1) SE ENERGYBANK 10K
10.400 kW DC SYSTEM SIZE
10.000 kW AC SYSTEM SIZE

DATE: 3/20/2023
REV: A
DRAWN BY: JS

SEAL:

EQUIPMENT SPECIFICATIONS
PV 10

Backup Interface for North America

BI-EUSGN-01 / BI-NUSGN-01

12 YEAR WARRANTY



STOREDGE®

Backup Interface for Flexible Backup

- Automatically provides backup power to home loads in the event of grid interruption
- Full flexibility in which loads to backup - the entire home or selected loads
- Scalable solution to support higher power & higher capacity^(*)
- Built-in Auto Transformer and Energy Meter for easier and faster installation
- Seamless integration with the Energy Hub Inverter with Prism Technology to manage and monitor both PV generation and energy storage
- Generator connection support^(*)

(*) Requires supporting inverter firmware

solaredge.com



Backup Interface for North America

BI-EUSGN-01 / BI-NUSGN-01

	BI-EUSGN-01	BI-NUSGN-01	
INPUT FROM GRID			
AC Current Input	200		A
AC Output Voltage (Nominal)	240		Vac
AC Output Voltage Range	211 - 264		Vac
AC Frequency (Nominal)	60		Hz
AC Frequency Range	59.3 - 60.5		Hz
Microgrid Interconnection Device Rated Current	200		A
Service Side AC Main Circuit Breaker Rated Current	200	N/A	A
Service Side AC Main Circuit Breaker Interrupt Current	10k	N/A	A
Grid Disconnection Switchover Time	<100		ms
OUTPUT TO MAIN DISTRIBUTION PANEL			
Maximum AC Current Output	200		A
AC L-L Output Voltage (Nominal)	240		Vac
AC L-L Output Voltage Range	211 - 264		Vac
AC Frequency (Nominal)	60		Hz
AC Frequency Range	59.3 - 60.5		Hz
Maximum Inverters AC Current Output in Backup Operation	78		A
Imbalance Compensation in Backup Operation	5000		W
AC L-N Output Voltage in Backup (Nominal)	120		V
AC L-N Output Voltage Range in Backup	105 - 132		V
AC Frequency Range in Backup	55 - 65		Hz
INPUT FROM INVERTER			
Number of Inverter Inputs	3		#
Rated AC Power	7,600		W
Maximum Continuous Input Current @ 240V	32		A
Rated AC Power in Continuous Backup Operation	6,100		W
Maximum Continuous Input Current in Backup Operation	26		A
Peak AC Power (<10 sec) in Backup Operation	7,000		W
Peak AC Current (<10 sec) in Backup Operation	30		A
Inverter Input AC Circuit Breaker	40		A
Upgradability	Up to 3 X 63A CB ⁽¹⁾		
GENERATOR⁽²⁾			
Maximum Rated AC Power	15,000		W
Maximum Continuous Input Current	63		Adc
Dry Contact Switch Voltage Rating	250/30		Vac/Vdc
Dry Contact Switch Current Rating	5		A
2-wire Start Switch	Yes		
ADDITIONAL FEATURES			
Installation Type	Suitable for use as service equipment	For main lug only	
Number of Communication Inputs	2		
Communication	RS485		
Energy Meter (for Import/Export)	1% accuracy		
Manual Control Over Microgrid Interconnection Device	Yes		

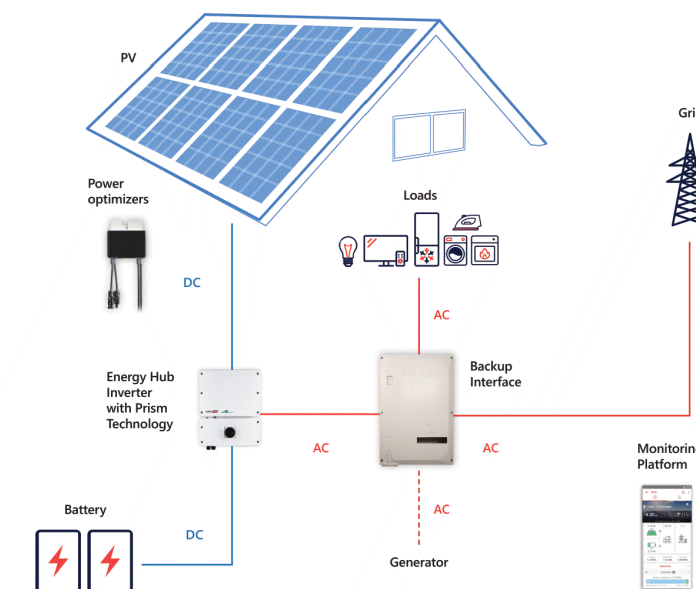
(1) Each 40A CB supports up to one 7.6kW inverter, with each 63A CB supporting one 10kW and one 11.4kW inverter. The CB upgrade kit is available with the following part numbers: for 40A CB, CB-UPG-40-01; for 63A, CB-UPG-63-01

(2) Requires supporting inverter firmware

Backup Interface for North America

BI-EUSGN-01 / BI-NUSGN-01

	BI-EUSGN-01	BI-NUSGN-01	
STANDARD COMPLIANCE			
Safety	UL1741, CSA 22.2 NO. 107		
Emissions	UL869A	N/A	
	FCC part 15 class B		
INSTALLATION SPECIFICATIONS			
Supported Inverters	SolarEdge single phase inverter Single phase Energy Hub inverter with Prism technology		
AC From Grid Conduit Size / AWG Range	2" conduits / #0 - 4/0 AWG		
AC Inverter Conduit Size / AWG Range	1" conduit / 14 - 4 AWG		
AC Generator Input Conduit Size / AWG Range	1" conduit / 8 - 3 AWG		
Communication Conduit Size / AWG Range	3/4" / 24 - 10 AWG		
Weight	73 / 33		lb / Kg
Cooling	Fan (user replaceable)		
Noise	< 50		dBa
Operating Temperature Range	-40 to +122 / -40 to +50		°F / °C
Protection Rating	NEMA 3R, IP44		
Dimensions (HxWxD)	20.59 x 13.88 x 8.62 / 523.5 x 352.5 x 219		in / mm



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TSP152526

(26) HY-DH108P8-400B
(1) SOLAREEDGE ENERGYHUB SE10000H-US
(1) SE ENERGYBANK 10K
10.400 kW DC SYSTEM SIZE
10.000 kW AC SYSTEM SIZE

DATE: 3/20/2023
REV: A
DRAWN BY: JS

SEAL:

EQUIPMENT SPECIFICATIONS
PV 11

Power Optimizer For Residential Installations

S440 / S500 / S500B



POWER OPTIMIZER

Enabling PV power optimization at the module level

- Specifically designed to work with SolarEdge residential inverters
- Detects abnormal PV connector behavior, preventing potential safety issues*
- Module-level voltage shutdown for installer and firefighter safety
- Superior efficiency (99.5%)
- Mitigates all types of module mismatch loss, from manufacturing tolerance to partial shading
- Faster installations with simplified cable management and easy assembly using a single bolt
- Flexible system design for maximum space utilization
- Compatible with bifacial PV modules

*Functionality subject to inverter model and firmware version

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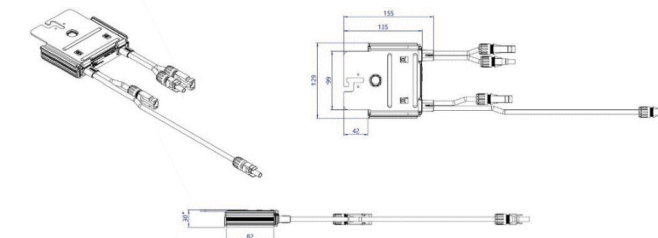
/ Power Optimizer For Residential Installations S440 / S500 / S500B

	S440	S500	S500B	UNIT
INPUT				
Rated Input DC Power ⁽¹⁾	440		500	W
Absolute Maximum Input Voltage (Voc)		60	125	Vdc
MPPT Operating Range		8 – 60	12.5 – 105	Vdc
Maximum Short Circuit Current (Isc) of Connected PV Module	14.5		15	Adc
Maximum Efficiency		99.5		%
Weighted Efficiency		98.6		%
Overvoltage Category		II		
OUTPUT DURING OPERATION				
Maximum Output Current		15		Adc
Maximum Output Voltage		60	80	Vdc
OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM INVERTER OR INVERTER OFF)				
Safety Output Voltage per Power Optimizer		1 ± 0.1		Vdc
STANDARD COMPLIANCE⁽²⁾				
EMC	FCC Part 15 Class B, IEC61000-6-2, IEC61000-6-3, CISPR11, EN-55011			
Safety	IEC62109-1 (class II safety), UL1741			
Material	UL94 V-0, UV Resistant			
RoHS	Yes			
Fire Safety	VDE-AR-E 2100-712:2018-12			
INSTALLATION SPECIFICATIONS				
Maximum Allowed System Voltage		1000		Vdc
Dimensions (W x L x H)		129 x 155 x 30	129 x 155 x 45	mm
Weight (including cables)		655		gf
Input Connector		MC4 ⁽³⁾		
Input Wire Length		0.1		m
Output Connector		MC4		
Output Wire Length		(+) 2.3, (-) 0.10		m
Operating Temperature Range ⁽⁴⁾		-40 to +85		°C
Protection Rating		IP68		
Relative Humidity		0 – 100		%

(1) Rated power of the module at STC will not exceed the Power Optimizer Rated Input DC Power. Modules with up to +5% power tolerance are allowed.
 (2) For details about CE compliance, see [Declaration of Conformity – CE](#).
 (3) For other connector types please contact SolarEdge.
 (4) For ambient temperatures above +70°C power de-rating is applied. Refer to [Power Optimizers Temperature De-Rating Technical Note](#) for details.

PV System Design Using a SolarEdge Inverter ⁽⁵⁾	SolarEdge Home Wave Inverter Single Phase	SolarEdge Home Short String Inverter Three Phase	Three Phase for 230/400V Grid	Three Phase for 277/480V Grid	
Minimum String Length (Power Optimizers)	S440, S500: 8 S500B: 6	9	16	18	
Maximum String Length (Power Optimizers)	25	20	50	50	
Maximum Continuous Power per String	5700	5625	11250	12750	W
Maximum Allowed Connected Power per String (Permitted only when the power difference between strings is less than 2,000W)	See ⁽⁶⁾	See ⁽⁶⁾	13500	15000	W
Parallel Strings of Different Lengths or Orientations	Yes				

(5) It is not allowed to mix S-series and P-series Power Optimizers in new installations.
 (6) If the inverter's rated AC power < maximum nominal power per string, then the maximum power per string will be able to reach up to the inverters maximum input DC power. Refer to [Application Note: Single String Design Guidelines](#).



*45mm for S500B

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TSP152526

(26) HY-DH108P8-400B
(1) SOLAREGE ENERGYHUB SE10000H-US
(1) SE ENERGYBANK 10K
10.400 kW DC SYSTEM SIZE
10.000 kW AC SYSTEM SIZE

DATE: 3/20/2023
REV: A
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EQUIPMENT SPECIFICATIONS
PV 12



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 TITANSOLARPOWER.COM

390-410W

HIGH CONVERSION EFFICIENCY
 Module efficiency up to 21.0% through advanced cell technology and manufacturing process

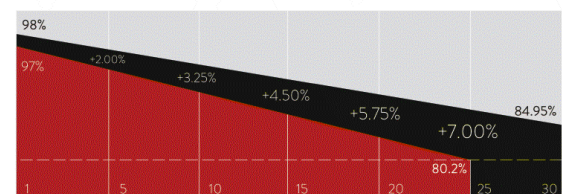
EXCELLENT WEAK LIGHT PERFORMANCE
 More power output in weak light condition, such as cloudy days, morning and sunset

EXTENDED MECHANICAL PERFORMANCE
 Module certified to withstand extreme wind (2400 Pa) and snow loading (5400 Pa)

QUALITY GUARANTEE
 High module quality ensures long-term reliability

INFO@HYPERION-USA.COM
 7/559 MOO.6, MAPYANGPHON SUBDISTRICT,
 PLUAK DAENG DISTRICT, RAYONG PROVINCE,
 21140, THAILAND

HY-DH108P8
 108 HALF-CELL BIFACIAL MODULE



■ Conventional Module ■ Hyperion Performance
 25 Years warranty for materials and workmanship
 30 Years warranty for extra linear power output



IEC61215 / IEC61730 / UL61730
 IEC61701 / IEC62716
 ISO9001: Quality Management System

12/22

BLACK DH108P8

Mechanical Parameters

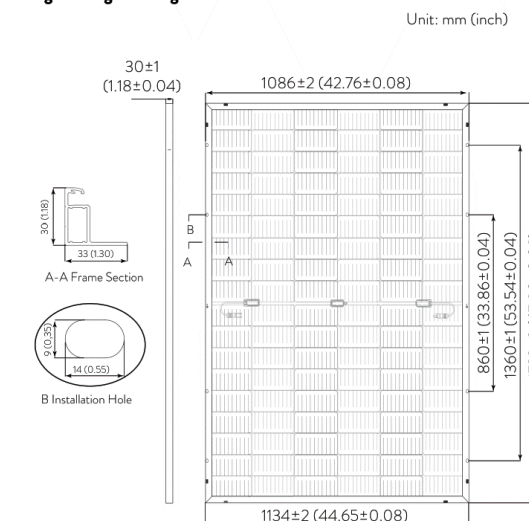
Solar Cell	Mono PERC 182mm
No. of Cells	108 (6 × 18)
Dimensions	1722 × 1134 × 30mm (67.08 × 44.65 × 1.18in.)
Weight	25.2kg (55.55lbs)
Junction Box	IP68 rated (3 bypass diodes)
Output Cables	4mm ² (IEC), 12 AWG (UL) (-/+1200mm (47.24in.) or customized)
Connector	EVO2 or customized
Front Cover	2.0mm (0.079in.) semi-tempered AR glass
Back Cover	2.0mm (0.079in.) semi-tempered glass
Container	36 pcs/Pallet, 792 pcs/40' HC

Operating Parameters

Max. System Voltage	DC 1500V (IEC/UL)
Operating Temperature	-40°C ~ +85°C (-40°F ~ +185°F)
Max. Fuse Rating	30A
Frontside Max. Loading	5400Pa (112lb/ft ²)
Backside Max. Loading	2400Pa (50lb/ft ²)
Bifaciality	70%±10%
Fire Resistance	IEC Class A, UL Type 29

HY-DH108P8-390/410B

Engineering Drawing



Electrical Characteristics - STC

Parameter	Irradiance 1000 W/m ² , ambient temperature 25 °C, AM1.5				
	410	405	400	395	390
Maximum Power at STC (Pmax/W)	410	405	400	395	390
Power Tolerance (W)	0 ~ +5				
Optimum Operating Voltage (Vmp/V)	31.45	31.21	31.01	30.84	30.64
Optimum Operating Current (Imp/A)	13.04	12.98	12.90	12.81	12.73
Open Circuit Voltage (Voc/V)	37.32	37.23	37.07	36.98	36.85
Short Circuit Current (Isc/A)	13.95	13.87	13.79	13.70	13.61
Module Efficiency	21.0%	20.7%	20.5%	20.2%	20.0%

Electrical Characteristics - NMOT

Parameter	Irradiance 800 W/m ² , ambient temperature 20 °C, AM1.5, wind speed 1 m/s.				
	310.2	306.4	302.5	298.8	295.0
Maximum Power at NMOT (Pmax/W)	310.2	306.4	302.5	298.8	295.0
Optimum Operating Voltage (Vmp/V)	29.82	29.60	29.41	29.25	29.15
Optimum Operating Current (Imp/A)	10.40	10.35	10.29	10.22	10.15
Open Circuit Voltage (Voc/V)	35.39	35.31	35.15	35.07	34.95
Short Circuit Current (Isc/A)	11.25	11.19	11.13	11.05	10.98

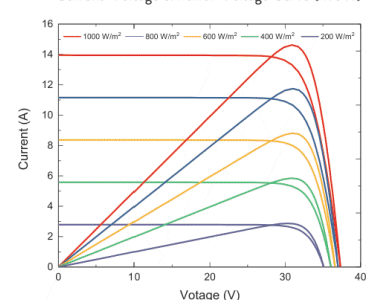
Rearside Power Gain (Reference to 410W Front)

Parameter	5%	15%	25%
Rearside Power Gain	5%	15%	25%
Maximum Power (Pmax/W)	431.4	472.3	514.8
Optimum Operating Voltage (Vmp/V)	31.57	31.57	31.65
Optimum Operating Current (Imp/A)	13.66	14.96	16.27
Open Circuit Voltage (Voc/V)	37.46	37.46	37.46
Short Circuit Current (Isc/A)	14.57	15.96	17.35
Module Efficiency	22.1%	24.2%	26.4%

Temperature Characteristics

Nominal Module Operating Temperature	42 ± 2 °C
Nominal Cell Operating Temperature	45 ± 2 °C
Temperature Coefficient of Pmax	-0.35%/°C
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	0.05%/°C

Current-Voltage & Power-Voltage Curve (410W)



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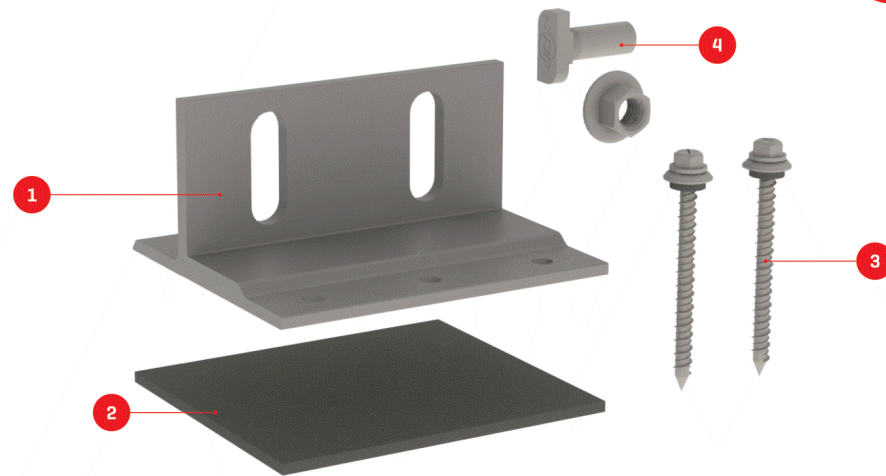
(26) HY-DH108P8-400B
 (1) SOLAREEDGE ENERGYHUB SE10000H-US
 (1) SE ENERGYBANK 10K
 10.400 kW DC SYSTEM SIZE
 10.000 kW AC SYSTEM SIZE

DATE: 3/20/2023
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EQUIPMENT SPECIFICATIONS
PV 13

We support PV systems
Formerly Everest Solar Systems



Splice Foot X

Patent Pending

TECHNICAL SHEET

Item Number	Description	Part Number
1	Splice Foot X	4000113 Splice Foot X Kit, Mill
2	K2 FlexFlash Butyl	
3	M5 x 60 lag screws	
4	T-Bolt & Hex Nut Set	

Technical Data

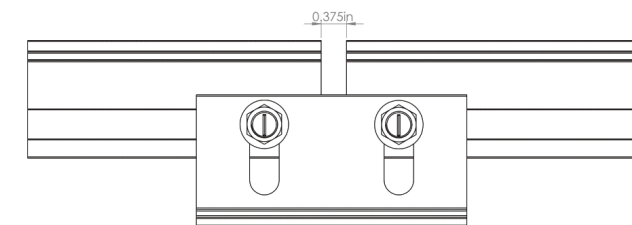
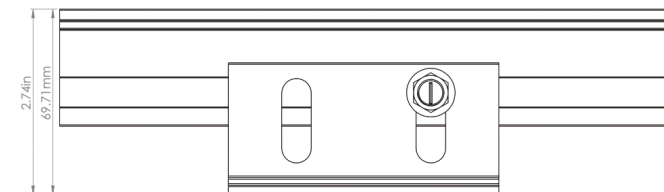
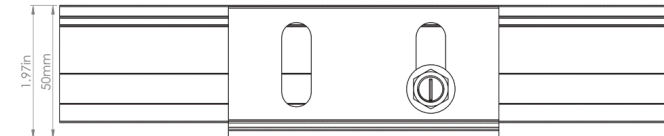
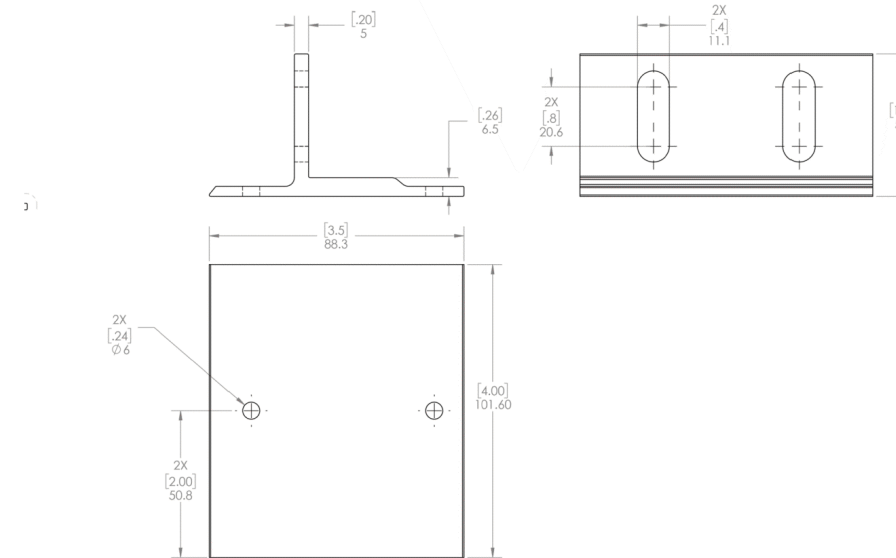
Splice Foot X	
Roof Type	Composition shingle
Material	Aluminum with stainless steel hardware
Finish	Mill
Roof Connection	M5 x 60 lag screws
Code Compliance	UL 2703
Compatibility	CrossRail 44-X, 48-X, 48-XL, 80

k2-systems.com

We support PV systems
Formerly Everest Solar Systems



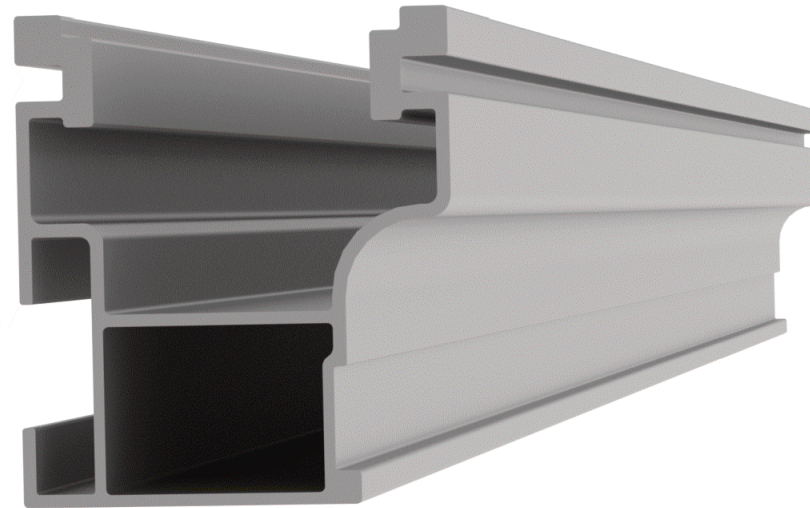
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NEW!



NEW PRODUCT

CrossRail 44-X

- ▶ Optimized rail profile
- ▶ One rail for all markets
- ▶ Built-in wire management
- ▶ Maintains same structural integrity as 48-X
- ▶ Tested up to 200 mph winds
- ▶ Tested up to 100 PSF snow loads

Part Number	Description
4000019	CrossRail 44-X 166", Mill
4000020	CrossRail 44-X 166", Dark
4000021	CrossRail 44-X 180", Mill
4000022	CrossRail 44-X 180", Dark
4000051	RailConn Set, CR 44-X, Mill
4000052	RailConn Set, CR 44-X, Dark
4000067	End Cap, Black, CR 44-X



www.everest-solarsystems.com
 CrossRail 44-X Product Sheet US01 | 0520 · Subject to change · Product illustrations are exemplary and may differ from the original.

Recommended OCPD Size per Grid

Inverter	Maximum Output Current (A)	Minimum Fuse Rating (A)	Maximum Fuse Rating (A)
SE3000H-US	12.5	20	50
SE3800H-US	16	20	50
SE5000H-US	24 @ 208V 21 @ 240V	30	50
SE6000H-US	24 @ 208V 25 @ 240V	30 @ 208V 35 @ 240V	50
SE7600H-US	32	40	50
SE10000H-US	42	60	80
SE11400H-US	48.5 @ 208V 47.5 @ 240V	70 @ 208V 60 @ 240V	80

SolarEdge Single Phase Inverter with HD-Wave Technology Installation MAN-01-00541-1.1

SolarEdge Energy Bank 10kWh Battery

STORAGE



10
YEAR
WARRANTY

Optimized for SolarEdge Energy Hub inverters**

- Maximized system performance, gaining more energy to store and use for on-grid and backup power applications
- Integrates with the complete SolarEdge residential offering, providing a single point of contact for warranty, support, training, and simplified logistics & operations
- DC coupled Li-ion battery featuring industry-leading 93.3% overall system efficiency, from PV to battery to grid
- Scalable solution for increased power and capacity with multiple SolarEdge inverters and batteries
- Solar, storage, EV charging, and smart devices all monitored and managed by a single app to optimize solar production, consumption and backup power
- Wireless communication to the inverter, reducing wiring, labor and risk of installation faults
- Simple plug and play installation, with automatic SetApp-based configuration using predefined profiles
- Includes multiple safety features for battery protection at all times

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BATTERY SPECIFICATION		BAT-10K1PS0B-01	
Usable Energy		9800 (100% depth of discharge)	Wh
Continuous Output Power		5000	W
Peak Output Power		7500 (for 10 seconds)	W
Peak Roundtrip Efficiency		>94.5	%
Warranty ⁽¹⁾		10	Years
Voltage Range		350-450	Vdc
Communication Interfaces		Wireless / RS485	
Batteries per inverter		Up to 3	
STANDARD COMPLIANCE			
Certificate		UL1642, UL1973, UL9540, UL9540A, UN38.3	
Emissions		FCC Part 15 Class B	
MECHANICAL SPECIFICATIONS			
Dimensions (W x H x D)		31.1 x 46.4 x 9.84 / 790 x 1179 x 250	in / mm
Weight		238 / 108	lb / kg
Mounting		Wall mount or floor mount ⁽²⁾	
Operating Temperature		+14 to +122 / -10 to +50	*F / °C
Storage Temperature		-22 to +140 / -30 to +60	*F / °C
Altitude		9842 / 3000	ft / m
Enclosure Protection		IP65 / NEMA 3R - indoor and outdoor (water and dust protection)	
Cooling		Natural convection	
Noise		<25	dBA

(1) For warranty details please refer to the warranty letter
 (2) Floor mount stand is purchased separately
 * The specifications included in this document are preliminary and subject to change
 ** Please refer to SolarEdge battery compatible inverters app note

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CE RoHS

TITAN
SOLAR POWER
525 W BASELINE RD., MESA AZ, 85210
CONTRACTOR LIC# U.34445

SPIVEY, STEPHEN RESIDENCE
131 EDNA JOHN COURT, DUNN, NC, 28334
LAT:35.339800, LON:-78.652052
TSP152526

(26) HY-DH108P8-400B
(1) SOLAREEDGE ENERGYHUB SE10000H-US
(1) SE ENERGYBANK 10K
10.400 kW DC SYSTEM SIZE
10.000 kW AC SYSTEM SIZE

DATE: 3/20/2023
REV: A
DRAWN BY: JS

SEAL:

EQUIPMENT
SPECIFICATIONS
PV 17