PROJECT LOCATION - MAP VIEW

SCOPE OF WORK

THESE PLANS ARE FOR THE INSTALLATION OF A ROOF MOUNTED PHOTOVOLTAIC (PV) SYSTEM. THE PV SYSTEM WILL BE INTERCONNECTED WITH THE DUKE UTILITY GRID THROUGH EXISTING ELECTRICAL EQUIPMENT AND WILL OPERATE IN PARALLEL VIA SUPPLY (LST) SIDE CONNECTION WITH NET ENERGY METER.

GOVERNING BUILDING CODES

- 2020 FLORIDA BUILDING CODE, 7TH EDITION
- 2. 2017 NATIONAL ELECTRICAL CODE, NEC 3. 2020 FLORIDA FIRE PREVENTION CODE 7TH
- EDITION. 4. UL STANDARDS
- 4.1. RACKING UL 2703
- 4.2. PV MODULE UL 1703 4.3. INVERTER - UL 1741

DESIGN SPECIFICATIONS

- . AHJ Tarpon Springs Building Department 2. UTILITY - DUKE
- 3. BUILDING RISK CATEGORY II
- 4. DESIGN WIND SPEED (ULT) 150MPH 5. DESIGN SNOW LOAD - 0 PSF
- 6. EXPOSURE CATEGORY C
- 7. MEAN ROOF HEIGHT 20FT 8. ROOF SLOPE - 0°
- Sheet List Table Sheet Title |Sheet Number| COVER PV01 SITE PLAN AC LINE PV04 SITE LAYOUT ATTACH PLAN PV05 DATASHEETS

INSTALLATION NOTES

- 1. THE EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH
- THE MANUFACTURES INSTALLATION INSTRUCTIONS. 2. THE ACTUAL LOCATION OF THE ARRAY AND PLACEMENT OF THE MECHANICAL ANCHORS ARE SUBJECT TO VARIANCES DEPENDING ON SITE CONDITIONS AND/OR ROOF OBSTRUCTIONS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND
- SPECIFICATIONS BEFORE COMMENCING. 3. ALL OUTDOOR EQUIPMENT SHALL BE RAIN TIGHT WITH MINIMUM
- NEMA3-R RATING.
- 4. ALL LOCATIONS ARE APPROXIMATE AND REQUIRE FIELD VERIFICATION.
- 5. ALL WORK SHALL COMPLY WITH THE BUILDING CODES SET
- FORTH BY THE GOVERNING JURISDICTION.
- 6. ALL EQUIPMENT SHALL MEET MINIMUM SETBACKS AS REQUIRED BY THE NATIONAL FIRE CODE, NFC AND THE NATIONAL ELECTRICAL CODE, NEC.

ABBREVIATIONS

- EXISTING
- (N) NEW TYP - TYPICAL
- NTS NOT TO SCALE
- MIN MINIMUM MAX - MAXIMUM
- AC ALTERNATING CURRENT DC - DIRECT CURRENT
- PV PHOTOVOLTAIC
- MOD PV MODULE INV - DC/AC PV INVERTER
- POC POINT OF CONNECTION(PV) RSB - RAPID SHUTDOWN BOX
- CB CIRCUIT BREAKER (EX. 20A/2P CB 20AMP 2-POLE CIRCUIT BREAKER)
- C CONDUIT
- OCP OVERCURRENT PROTECTION
- OCPD- OVERCURRENT PROTECTION DEVICE MSD - MAIN SERVICE DISCONNECT
- DISC DISCONNECT MSP - MAIN SERVICE PANEL
- SP SUB PANEL
- PLP PROTECTED LOADS PANEL
- MLO MAIN LUG ONLY MB - MAIN BREAKER
- EGC EQUIPMENT GROUNDING CONDUCTOR
- GEC GROUNDING ELECTRODE CODUCTOR GES - GROUNDING ELECTRODE SYSTEM

- 1. INSTALLATION TO BE COMPLIANT WITH NFPA 1 & NFPA70 (NATIONAL
- 2. THE INVERTER HAS INTEGRATED GROUND AND NO DC GEC IS REQUIRED. THE DC CIRCUIT IS ISOLATED AND INSULATED FROM
- DETERMINED ON SITE BY THE CONTRACTOR
- 4.1. PV MODULE UL1703
- 4.2. INVERTER UL1741
- 4.3. RACKING SYSTEM UL2703
- 5.2. MODULE BONDING METHOD SHALL BE INTEGRATED GROUNDING
- 5.3. GROUNDING SYSTEM COMPONENTS SHALL BE LISTED FOR THEIR PURPOSE, AND GROUNDING DEVICES SHALL BE RATED FOR DIRECT
- 5.4. EGC SHALL BE SIZED IN ACCORDACE WITH 250.122 AND ARRAY
- EGC'S SMALLER THAN 6AWG SHALL COMPLY WITH 250.120(C) ALL CONDUCTORS ARE COPPER, UNLESS SPECIFIED OTHERWISE
- ACCORDING TO THE APPLICABLE CODE IF THE SIZE IS NOT SPECIFIED. 8. SIGNAGE SHALL BE APPLIED ACCORDING TO GOVERNING BUILDING
- EXPECTED OPERATING TEMPERATURE AS SPECIFIED BY NEC.
- CARRY LESS THAN THE LARGER OF 690.(B)(1) OR (2) 11. DC PV SOURCE AND DC OUTPUT CURRENT CIRCUITS ON OR INSIDE A BUILDING SHALL BE CONTAINED IN METAL RACEWAYS, TYPE MC METAL-CLAD CABLE THAT COMPLIES WITH 250.118(10), OR METAL
- DISCONNECTING MEANS.(690.31(G)) 12. ACCESS TO BOXES; JUNCTION, PULL, AND OUTLET BOXES LOCATED BEHIND MODULES OR PANELS SHALL BE SO INSTALLED THAT THE
- ELECTRIC POWER SOURCE SHALL BE CONNECTED AS SPECIFIED IN

- 3. THE EXACT LOCATION OF NEW ELECTRICAL EQUIPMENT AND CONDUIT RUN RELATING TO THIS PROJECT IS SUBJECT TO CHANGE AND WILL BE
- 4. ALL EQUIPMENT TO BE LISTED OR LABELED FOR ITS APPLICATION(UL

- REQUIREMENTS OF NEC ARTICLES 250 & 690
- FOR PROPER BONDING TECHNIQUES.
- CODES AND LOCAL JURISDICTIONS SPECIFIC REQUIREMENTS.

- WIRING CONTAINED IN THEM CAN BE RENDERED ACCESSIBLE DIRECTLY
- 705.12(A),(B),(C), OR (D).

- 7. ALL CONDUIT, RACEWAYS, AND JUNCTION BOXES SHALL BE SIZED
- 9. EQUIPMENT INSTALLED IN DIRECT SUNLIGHT MUST BE RATED FOR
- THROUGH (A)(5). CONDUCTOR AMPACITY SHALL BE SIZED TO NOT

- ELECTRICAL CODE)
- PHOTOVOLTAIC POWER SYSTEMS)

- MID CLAMPS. REFER TO MANUFACTURES SPECIFIC INSTRUCTIONS

- THE BUILDING OR STRUCTURE TO THE FIRST READILY ACCESSIBLE
- 13. PV POINT OF CONNECTION. THE OUTPUT OF AN INTERCONNECTED

GROUND AND MEETS THE REQUIREMENTS OF 690.35 (UNGROUNDED

- OR OTHER APPROVED LISTINGS)

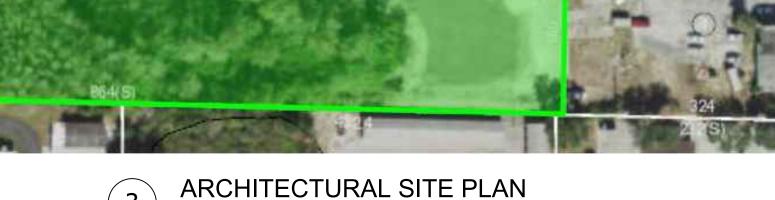
- 10. CALCULATION OF MAXIMUM CIRCUIT CURRENT FOR THE SPECIFIC CIRCUIT SHALL BE CALCULATED IN ACCORDANCE WITH 690.8(A)(1)
- ENCLOSURES FROM THE POINT OF PENETRATION OF THE SURFACE OF
- OR BY DISPLACEMENT OF A MODULE(S) SECURED BY REMOVABLE

- 5.1. ALL EQUIPMENT SHALL BE PROPERLY GROUNDED PER THE

- FASTENERS AND CONNECTED BY FLEXIBLE WIRING SYSTEM.(690.34)



PV PROJECT - 70.4kWdc



PROJECT LOCATION - AERIAL VIEW

Project Type - Photovoltaic

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CONTRACTOR

SUB CONTRACTOR

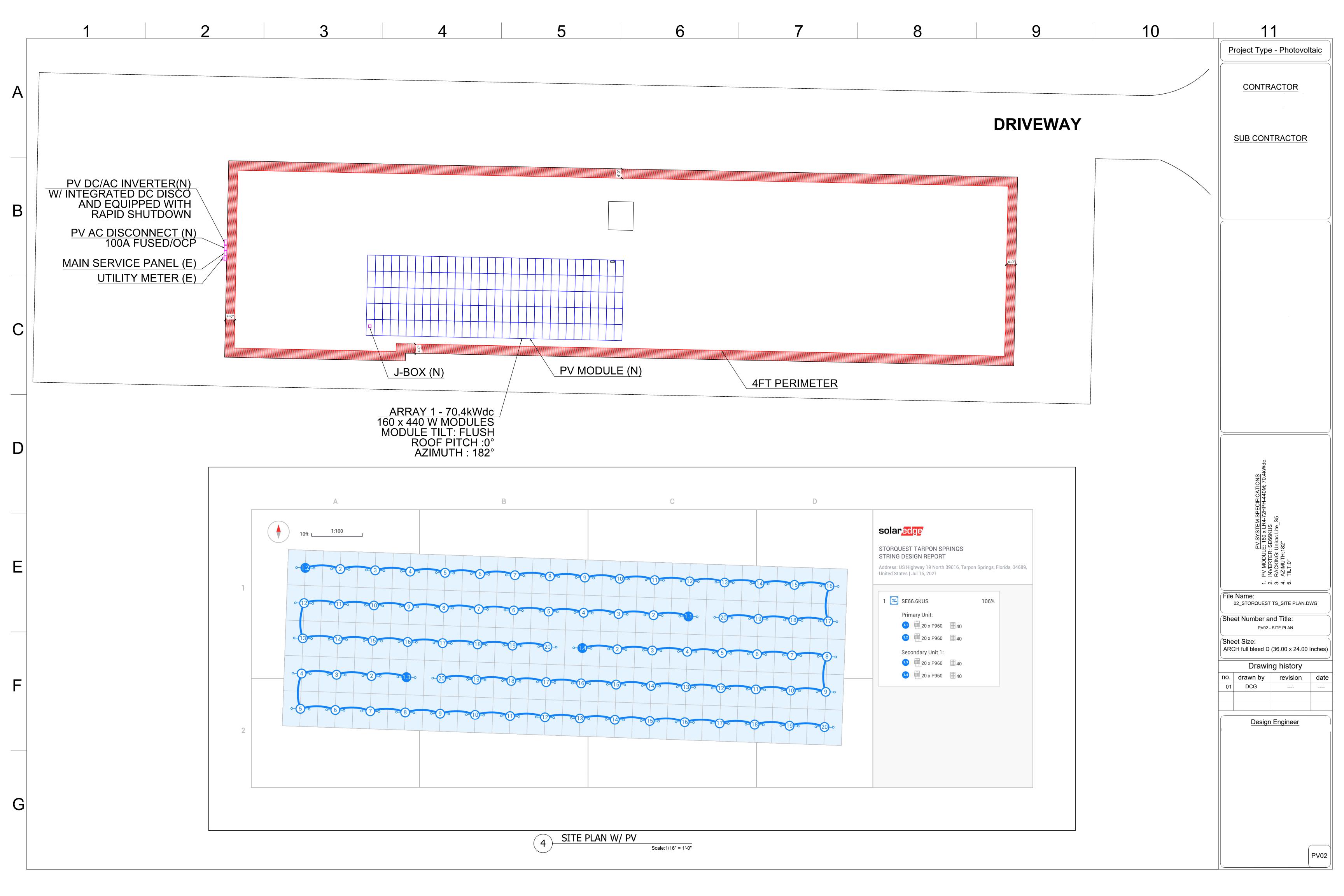
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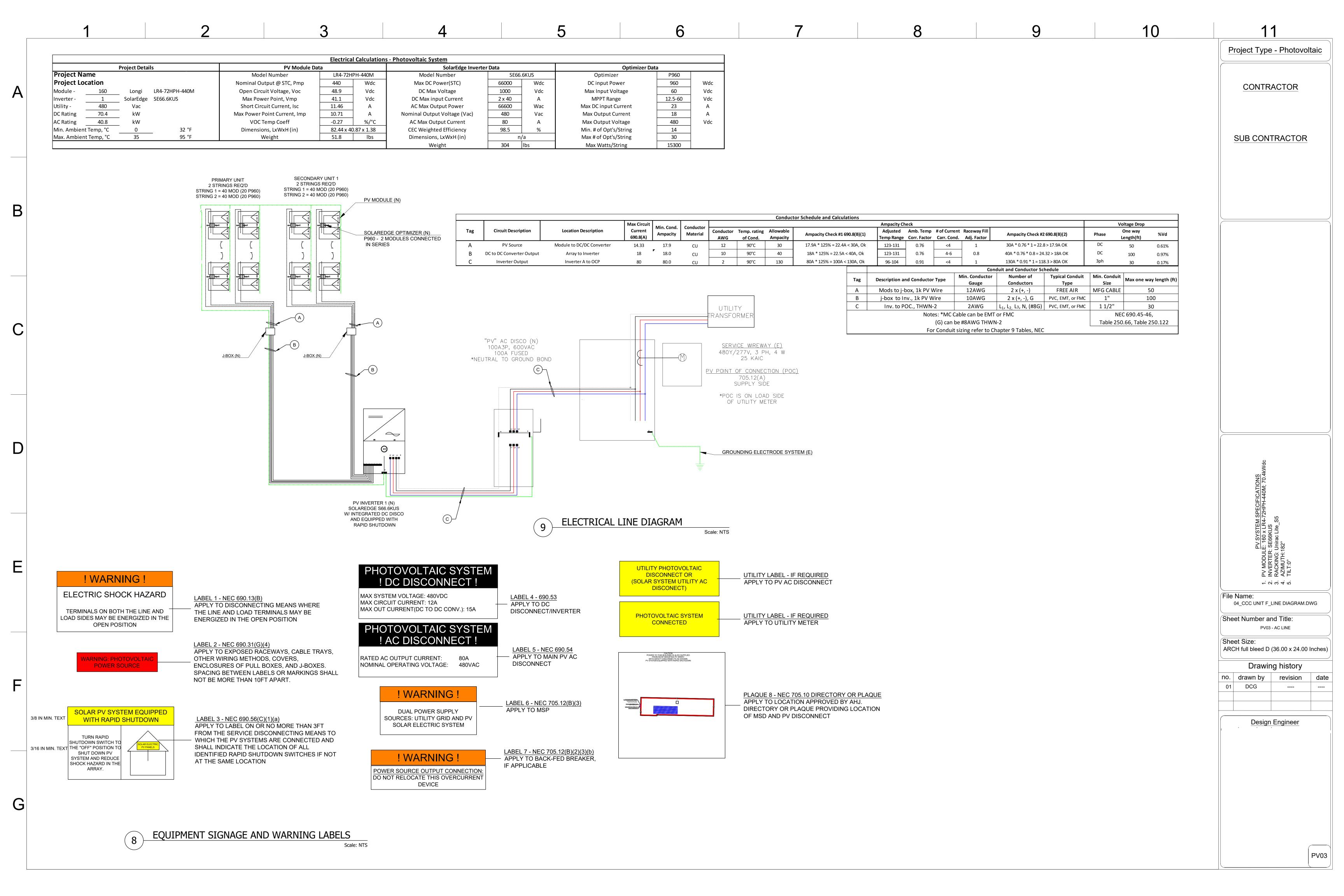
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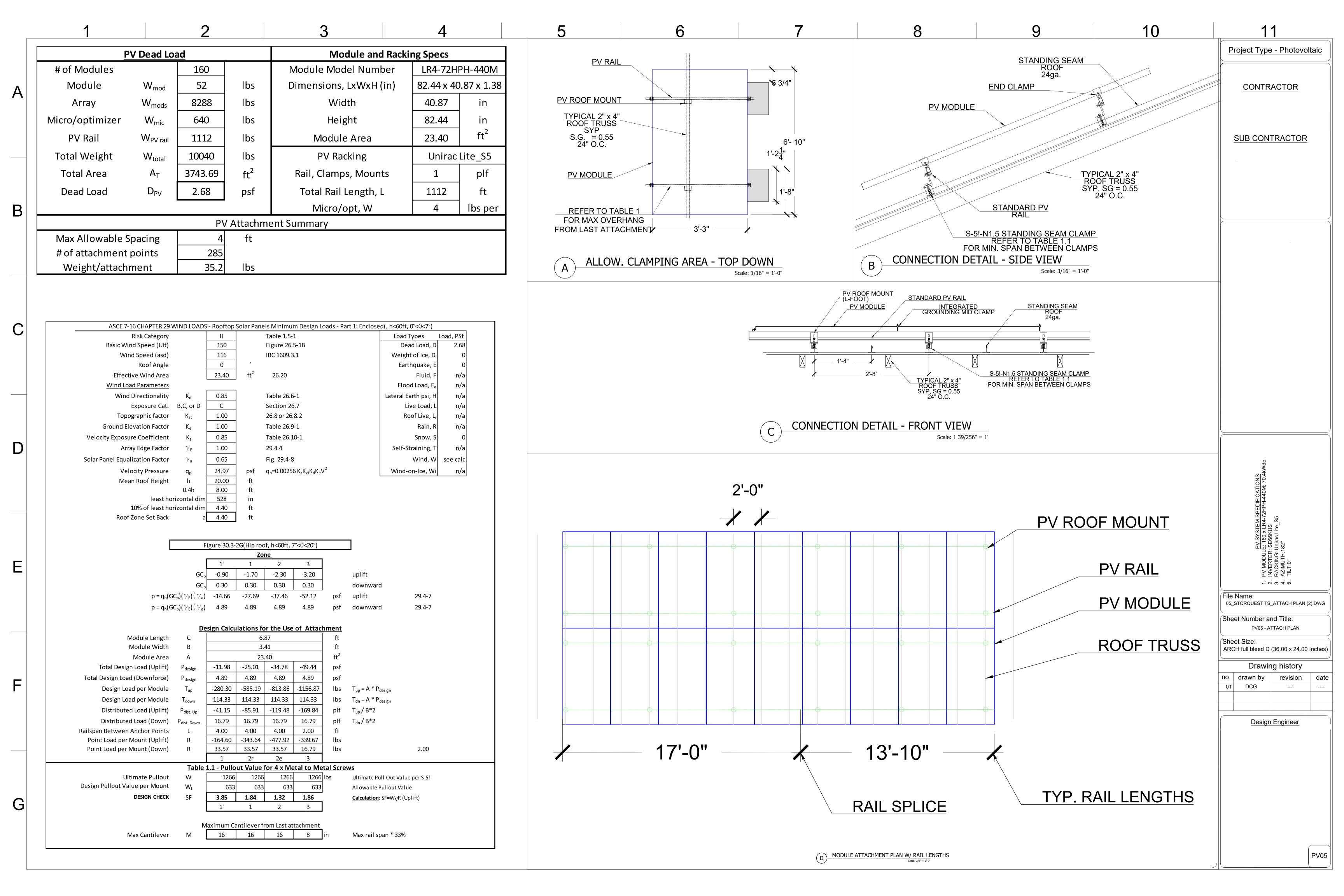
Design Engineer

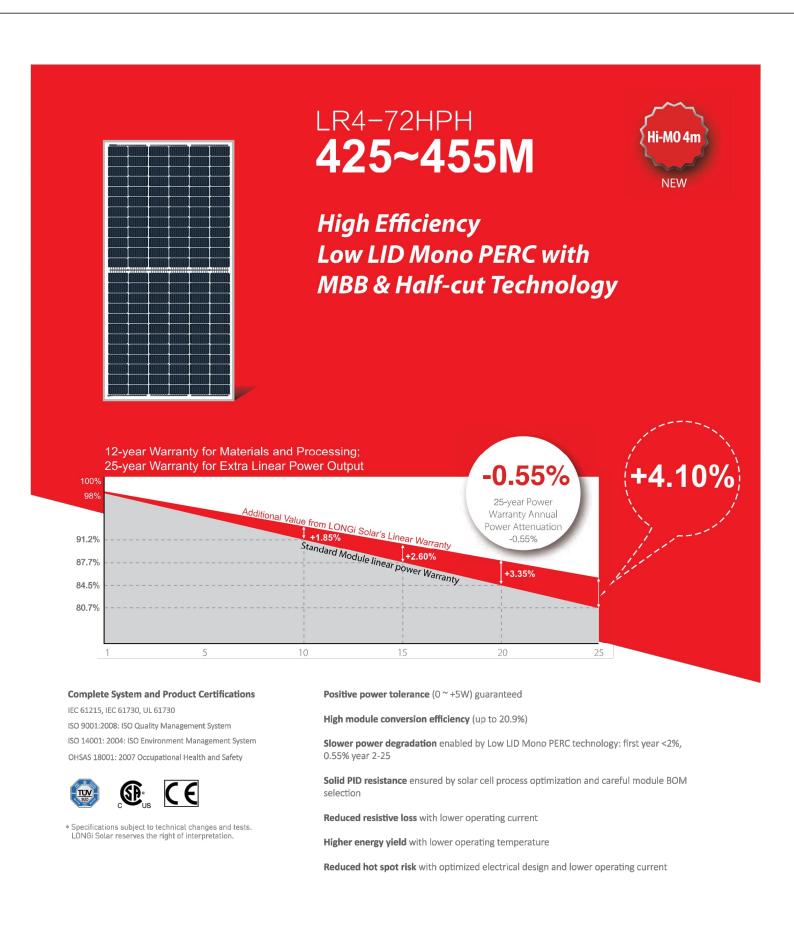
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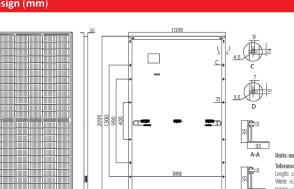


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Cell Orientation: 144 (6×24) Junction Box: IP68, three diodes Output Cable: 4mm², 1400mm in length Connector: Staubli EVO2 Glass: Single glass

> Dimension: 2094×1038×35mm Packaging: 30pcs per pallet

> > 150pcs per 20'GP

Power Output Tolerance: 0~+5 W Maximum System Voltage: DC1500V (IEC/UL) Maximum Series Fuse Rating: 20A Fire Rating: Class C according to UL790

<u> </u>		#L	B-B			Ol	oupes per 4	IO TIC						
Electrical Characteristics Test uncertainty for Pmax: ±3%														
Model Number	LR4-72H	PH-425M	LR4-72H	PH-430M	LR4-72HI	PH-435M	LR4-72HI	PH-440M	LR4-72HI	PH-445M	LR4-72H	PH-450M	LR4-72H	PH-455M
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	425	317.4	430	321.1	435	324.9	440	328.6	445	332.3	450	336.1	455	339.8
Open Circuit Voltage (Voc/V)	48.3	45.3	48.5	45.5	48.7	45.7	48.9	45.8	49.1	46.0	49.3	46.2	49.5	46.4
Short Circuit Current (Isc/A)	11.23	9.08	11.31	9.15	11.39	9.21	11.46	9.27	11.53	9.33	11.60	9.38	11.66	9.43
Voltage at Maximum Power (Vmp/V)	40.5	37.7	40.7	37.9	40.9	38.1	41.1	38.3	41.3	38.5	41.5	38.6	41.7	38.8
Current at Maximum Power (Imp/A)	10.50	8.42	10.57	8.47	10.64	8.53	10.71	8.59	10.78	8.64	10.85	8.70	10.92	8.75
Module Efficiency(%)	19	.6	19	.8	20	0.0	20).2	20	0.5	20	0.7	20).9
STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25 °C , Spectra at AM1.5														
NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², Ambient Temperature 20 °C, Spectra at AM1.5, Wind at 1m/S														

Temperature Ratings (STC)		Mechanical Loading					
Temperature Coefficient of Isc	+0.048%/˚C	Front Side Maximum Static Loading	5400Pa				
Temperature Coefficient of Voc	-0.270%/℃	Rear Side Maximum Static Loading	2400Pa				
Temperature Coefficient of Pmax	-0.350%/˚C	Hailstone Test	25mm Hailstone at the speed of 23m				

Current-Voltage Curve (LR4-72HPH-440M) Power-Voltage Curve (LR4-72HPH-440M) Current-Voltage Curve (LR4-72HPH-440M)

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RoHS 🕮

Three Phase Inverters with Synergy Technology

for the 277/480V Grid

SE66.6K / SE100K



Specifically designed to work with power optimizers

- Easy two-person installation each unit mounted separately, equipped with cables for simple connection between units
- Balance of System and labor reduction compared to using multiple smaller string inverters
- uptime and easy serviceability No wasted ground area: wall/rail mounted or

Independent operation of each unit enables higher

- horizontally mounted under the modules (10°
- Built-in module-level monitoring with Ethernet or cellular GSM
- Fixed voltage inverter for superior efficiency (98.1%) and longer strings
- Integrated Connection Unit with optional integrated DC Safety Switch – eliminates the need for external DC isolators
- Built-in RS485 Surge Protection, to better withstand lightning events
- Advanced safety features integrated arc fault protection and rapid shutdown
- 150% DC oversizing, enabling higher energy

solaredge.com



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RS

/ Three Phase Inverters for the 277/480V Grid(1) for North America

SE20KUS / SE30KUS / SE33.3KUS / SE40KUS

MODEL NUMBER	SE20KUS	SE30KUS	SE33.3KUS	SE40KUS	
APPLICABLE TO INVERTERS WITH PART NUMBER	SEXXK - USXXXBXXX	\F X X K - \ X X X X X			
OUTPUT	'				'
Rated AC Power Output	20000	30000	33300	40000	W
Maximum apparent AC output power	20000	30000	33300	40000	VA
AC Output Line Connections	4W + PE		3W + PE, 4W + PE		
AC Output Voltage Minimum-Nominal-Maximum ⁽²⁾ (L-N)		244 - 2	277 - 305		Vac
AC Output Voltage Minimum-Nominal-Maximum ⁽²⁾ (L-L)		422.5 -	480 - 529		Vac
AC Frequency Min-Nom-Max ⁽²⁾		59.3 -	60 - 60.5		Hz
Maximum Continuous Output Current (per Phase)	24	36.25	40	48.25	Aac
GFDI Threshold			1		Α
Utility Monitoring, Islanding Protection, Country Configurable Set Points		,	Yes		
Total Harmonic Distortion		:	≤ 3		%
Power Factor Range		+/- 0	.85 to 1		
INPUT					
Maximum DC Power (Module STC)	27000	45000	50000	60000	W
Transformer-less, Ungrounded	27000		Yes	00000	- **
Maximum Input Voltage DC+ to DC-			.000		Vdc
Nominal Input Voltage DC+ to DC-			350		Vdc
· · ·	26.5		40	40.25	
Maximum Input Current	-	36.25		48.25	Adc
Maximum Input Short Circuit Current	33		55		Adc
Reverse-Polarity Protection	1140.6 37.37		Yes		
Ground-Fault Isolation Detection	1MΩ Sensitivity		167kΩ Sensitivity ⁽³⁾		-
CEC Weighted Efficiency	98		98.5		%
Night-time Power Consumption	<3		<4		W
ADDITIONAL FEATURES					
Supported Communication Interfaces		2 x RS485, Etherne	et, Cellular (optional)		
Inverter Commissioning	With the SetApp me	obile application usir	ng built-in access point fo	or local connection	
Arc Fault Protection	Integ	rated, User Configura	able (According to UL16	99B)	
Rapid Shutdown	NEC2	2014, NEC2017 and N	NEC2020 compliant/cert	ified	
RS485 Surge Protection Plug-in		Supplied with th	ne inverter, Built-in		
DC Surge Protection	Type II, field replaceable, optional Type II, field replaceable, Built-in				
AC Surge Protection	-	Тур	e II, field replaceable, Bu	ilt-in	
DC Fuses (Single Pole)	-		25A, Built-in		
Smart Energy Management		Export	Limitation		
DC SAFETY SWITCH					
DC Disconnect		Inte	grated		
STANDARD COMPLIANCE	'		-		
Safety	UI 1741 UI 1741 SA	Δ III 1699R CSA C22	2.2, Canadian AFCI accord	ding to TII M-07	
Grid Connection Standards	021741, 021741 37			uning to fall. IVI 07	
Emissions	IEEE1547, Rule 21, Rule 14 (HI) FCC part15 class A				
		тес раг	LTJ Class A		
INSTALLATION SPECIFICATIONS AC output conduit size / AWG range	3/4" minimum /		³¼" or 1" / 6 - 10 AWG		
DC input conduit size / AWG range	12-6 AWG 34" or 1" / 6 - 12 AWG				
Number of DC inputs pairs	2	74 UII /	4		
Dimensions with Safety Switch (H x W x D)	30.5 x 12.5 x 10.5 / 775 x 315 x 260	31.8	4 12.5 × 11.8 / 808 × 317 × 300		in / m
Weight with Safety Switch	74.2 / 33.7		78.2 / 35.5		lb/k
Cooling	Fans (user replaceable)				
Noise	< 50	1 0113 (0361	< 62		dBA
Operating Temperature Range					
	-40 to +140 / -40 to +60 ⁽⁴⁾				°F/°
Protection Rating	NEMA 3R Bracket provided				
Mounting					

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Power Optimizer For North America

P860 / P960



Specifically designed to work with SolarEdge

Balance of System cost reduction; 50% less

cables, fuses and combiner boxes, over 2x longer

Up to 25% more energy

Superior efficiency (99.5%)

string lengths possible

solaredge.com

Fast installation with a single bolt

PV power optimization at the module-level

The most cost-effective solution for commercial and large field installations

monitoring

OWEROPTIMIZE 刀

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/ Power Optimizer

For North America P860 / P960

(Typical Module Compatibility)	(for 2 x 72 c	ell modules)	(for 2 x 72 c					
INPUT								
Rated Input DC Power ⁽¹⁾	86	50	9	60	W			
Connection Method	Dual input for independently connected modules ⁽²⁾							
Absolute Maximum Input Voltage (Voc at lowest temperature)		60						
MPPT Operating Range		12.5 - 60						
Maximum Short Circuit Current (Isc)	2	22 23						
Maximum Short Circuit Current per Input (Isc)	1	1	11	1.5	Adc			
Maximum Efficiency		99.	5		%			
Weighted Efficiency		98.	6		%			
Overvoltage Category								
OUTPUT DURING OPERATION (POWER OPTIMIZER CO	NNECTED TO OPERATI	NG SOLAREDGE INVE	RTER)				
Maximum Output Current		18			Adc			
Maximum Output Voltage		80)		Vdc			
OUTPUT DURING STANDBY (PO	WER OPTIMIZER DISCO	NNECTED FROM SOLAI	REDGE INVERTER OR S	OLAREDGE INVERTER	OFF)			
Safety Output Voltage per Power Optimizer		1 ± (0.1		Vdc			
STANDARD COMPLIANCE								
Photovoltaic Rapid Shutdown System		Compliant with NEC 2014, 2017 ⁽⁵⁾ , 2020						
EMC	FCC Part 15 Class A, IEC61000-6-2, IEC61000-6-3							
Safety	IEC62109-1 (class II safety), UL1741							
Material	UL94 V-0, UV resistant							
RoHS	Yes							
INSTALLATION SPECIFICATIONS	5							
Compatible SolarEdge Inverters		Three phase inverters						
Maximum Allowed System Voltage	1000							
Dimensions (W x L x H)	129 x 168 x 59 / 5.1 x 6.61 x 2.32							
Weight		1064 / 2.34						
Input Connector		MC ²	1(4)					
Input Wire Length Options	Input #1	Input #2	Input #1	Input #2				
1	(-) 0.16 / 0.52, (+) 0.16 / 0.52	(-) 0.16 / 0.52, (+) 0.16 / 0.52			mm / ir			
2	(-) 1.6 / 5.2, (+) 0.16 / 0.52	(-) 0.16 / 0.52, (+) 1.6 / 5.2	(-) 1.6 / 5.2, (+) 1.6 / 5.2	(-) 1.6 / 5.2, (+) 1.6 / 5.2	'''''			
3	(-) 1.6 / 5.2, (+) 1.6 / 5.2	(-) 1.6 / 5.2, (+) 1.6 / 5.2						
Output Wire Type / Connector		Double insul			-			
	2.2 /	7.5	m/ft °C/°F					
·		-40 to +85 / -40 to +185						
Operating Temperature Range ⁽⁵⁾								
Output Wire Length Operating Temperature Range ⁽⁵⁾ Protection Rating Relative Humidity		-40 to +85 / - IP68 / NE 0 - 1	EMA6P		%			

(5) For ambient temperature above +70°C / +158°F, power de-rating is applied. Refer to the Power Optimizers Temperature De-Rating Application Note for more details

and firefighter safety	PV System Design Usir	Three Phase fo	r 208V Grid ^⑺	Three Phase for 277/480V Grid		
Meets NEC requirements for arc fault protection (AFCI) and Photovoltaic Rapid Shutdown System (PVRSS)			P860	P960	P860	P960
	Minimum String Length	Power Optimizers	8		14	
	Williman String Length	PV Modules	15		27	
	Mariana String Langth	Power Optimízers	30		30	
	Maximum String Length	PV Modules			60	
Use with two PV modules connected in parallel	Maximum Power per String		7200 ⁽⁸⁾		15300 ⁽⁹⁾	
	Parallel Strings of Different Lengths or O	rientations		\	/es	

(6) It is not allowed to mix P860/P960 with P801/P800p/P850/P950/P1100 in one string or to mix with P370-P505 in one string (7) P860 design with three phase 208V inverters is limited. Use the SolarEdge Designer for verification
(8) For the 208V grid: It is allowed to install up to 7700W per string when the maximum power difference between each string is 1,000W (9) For the 277/480V grid: it is allowed to install up to 17,550W per string when the maximum power difference between each string is 2,000W

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Advanced maintenance with module-level

Module-level voltage shutdown for installer



#UNIRAC

SOLARMOUNT defined the standard in solar racking. New enhancements are designed to get installers off the roof faster than ever before. Components are pre-assembled and optimized to reduce installation steps and save labor time. Our new grounding & bonding process eliminates copper wire and grounding straps to reduce costs. Utilize the microinverter mount with a wire management clip for an easier installation.



GET OFF THE ROOF FASTER THAN EVER BEFORE

OPTIMIZED COMPONENTS • VERSATILITY • DESIGN TOOLS • QUALITY PROVIDER

SM SOLARMOUNT

OPTIMIZED COMPONENTS

INTEGRATED BONDING & PRE-ASSEMBLED PARTS $new\ grounding\ \&\ bonding\ process\ eliminates\ copper\ wire\ and\ grounding\ straps\ or\ bonding\ jumpers\ to$ reduce costs. Utilize the microinverter mount with a wire management clip for an easier installation.

VERSATILITY

ONE PRODUCT - MANY APPLICATIONS

Ouickly set modules flush to the roof or at a desired tilt angle. Change module orientation to nortrait or landscape while securing a large variety of framed modules on flat, low sloped or steep pitched roofs. Available in mill, clear and dark anodized finishes to outperform your projects financial and aesthetic

AUTOMATED DESIGN TOOL

DESIGN PLATFORM AT YOUR SERVICE

INTEGRATED BONDING L-FOOT w/ T-BOLT will enjoy the ability to share projects with customers; there's no need to print results and send INTEGRATED BONDING Microinverter mount w/ Wire Management

BONDING & GROUNDING MECHANICAL LOADING SYSTEM FIRE CLASSIFICATION

UNIRAC CUSTOMER SERVICE MEANS THE HIGHEST LEVEL OF PRODUCT SUPPORT



TECHNICAL SUPPORT









BANKABLE WARRANTY

CERTIFIED QUALITY PROVIDER

INTEGRATED BONDING

MIDCLAMP

PROTECT YOUR REPUTATION WITH QUALITY RACKING SOLUTIONS BACKED BY ENGINEERING EXCELLENCE AND A SUPERIOR SUPPLY CHAIN