



March 18, 2021

Ryan Roe  
Owner of Green Leaf Solar

Randy Cole  
Staff Liaison  
Columbia Community Land Trust  
500 E. Walnut, Suite 108

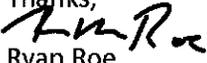
Dear Randy,

I'm writing to inform you that Green Leaf Solar is pleased to be turning in a bid for the solar installation on the Cullimore Cottages. Since opening our business, we've had great support from our city and community and are now in a position to look for ways to give back to our community. Columbia Community Land Trust offering affordable housing to low-income families is a program we'd like to support by offering a favorable bid.

Green Leaf Solar has looked over the RFP, did an onsite inspection of the project and priced all the hardware needed. We feel that our price should have no problem being the most attractive.

Thanks for the opportunity to bid on the Cullimore Cottage RFP. This bid is for the install of 4kw photovoltaic systems on all five of the homes being built. We are aware that these systems need to be installed as soon as possible. Every other commitment we have made is not too time sensitive. We could fit the five homes in with no problems. Timeline would be April 5-April 16. This is assuming contract awarded to us by March 25<sup>th</sup> and there are no delays with permits, interconnection agreements and parts.

If anything from this bid is unclear, feel free to contact me at 573-639-2800

Thanks,  
  
Ryan Roe

Owner of Green Leaf Solar

**Proposed service team:**

Ryan Roe -Forman/Installer

German Iskhieav – Head Installer

Carlos Martinez – Solar Tech

Adam Scott- Electrician

**3 References:**

Mark Stannard- In the summer of 2019 Ryan worked with me on a new system for my home. His proposal was informative and easy to understand. He did nearly all of the work involved in making sure I got all of the loans and credits. When utilizing the Columbia Power & Light rebate, the federal tax credit and a 1% loan from the city I was able to spend less than my utility payments for the next 6-7 years and then move forward with an \$18,000 bill. Each month since I turned on my system, all I have paid is the \$18,000 hookup fee. Ryan did a great installation. The panels look great, all of the wiring is very neat and hidden an the inverter just takes up a small area – about 2' x 3' in my utility room. He gave me some great service after the sale as well. I would highly recommend Ryan.

Bruce Jones- Excellent company, professional service, I was really impressed that all of the wiring to the inverters was ran inside of the walls. If you need a referral or want to look at a system installed in Columbia by Green Leaf Solar ask Ryan to give you my phone number.

John Spencer- These folks really know what they're doing. I shopped around and they have better products and prices. Excellent service. A great investment.

**Warranty:**

Included in the bid is a guarantee of work performed by Green Leaf Solar warranty of one year. Manufacturer's warranty is given on their data sheets.

Green Leaf Solar bid is \$38,200 for the work described in the RFP.

That's 5 solar systems each with:

13 full black Longi modules each producing 310 watts each for a total of 4.03kw

1 SolarEdge 3800 watt inverter

13 SolarEdge Optimizers for each module

See data sheets for product information

### Full Cost Sheet

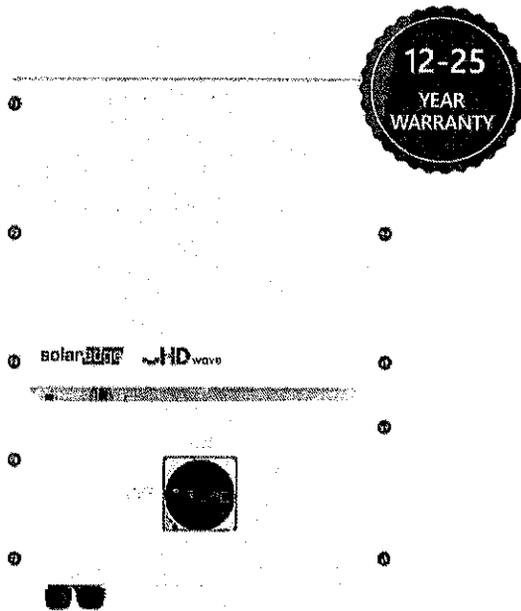
Qty	Description	Module	Cost
65	Longi solar modules	LR6-60 PB-310M	\$8,672
5	SolarEdge Inverters	SE3800H	\$4,590
65	SolarEdge Optimizers	P320	\$3,808
450 feet	IronRidge Racking	XR100B	\$1,203
110	Roof Mounts		\$1,177
	Wire/Conduit		\$2,000
	Rest of BOS		\$1,610
			\$23,060

# Single Phase Energy Hub Inverter with Prism Technology

for North America

SE3000H-US / SE3800H-US / SE6000H-US / SE7600H-US

STOREDGE®



## Optimized battery storage with HD-Wave technology

- Record-breaking 99% weighted efficiency with 200% DC oversizing
- Small, lightweight, and easy to install
- 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
- Multi-inverter<sup>(\*)</sup>, scalable storage solution
- Integrated arc fault protection and rapid shutdown for NEC 2014, NEC 2017 and NEC 2020, per article 690.11 and 690.12
- 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<sup>(1)</sup>

SMART ENERGY CAPABILITIES			
Consumption Metering	Built - in <sup>(6)</sup>		
Battery Storage	With Backup Interface for service up to 200A; Up to 3 inverters; 15kW backup power, and 60kWh backup capacity <sup>(7)</sup>		
EV Charging	Direct connection to Smart EV charger		
ADDITIONAL FEATURES			
Supported Communication Interfaces	RS485, Ethernet, Wi-Fi (optional), Cellular <sup>(2)</sup>		
Revenue Grade Metering, ANSI C12.20	Built - in <sup>(6)</sup>		
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, UL1699B, UL1998, UL9540, CSA 22.2		
Grid Connection Standards	IEEE1547, Rule 21, Rule 14H		
Emissions	FCC part 15 class B		
INSTALLATION SPECIFICATIONS			
AC Output Conduit Size / AWG Range	3/4" maximum / 14-8 AWG	1" maximum / 14-6 AWG	
EV AC Output Conduit Size / AWG Range	3/4" maximum / 14-8 AWG	1" maximum / 14-6 AWG	
DC Input (PV) Conduit Size / AWG Range	3/4" maximum / 14-8 AWG	1" maximum / 14-6 AWG	
DC Input (Battery) Conduit Size / AWG Range	3/4" maximum / 14-8 AWG	1" maximum / 14-6 AWG	
Dimensions with Connection Unit (HxWxD)	17.7 X 14.6 X 6.8 / 450 X 370 X 174		in / mm
Weight with Connection Unit	26 / 11.8	30.2 / 13.7	lb / kg
Noise	< 25		dBA
Cooling	Natural Convection		
Operating Temperature Range	-40 to +140 / -40 to +60 <sup>(3)</sup>		*F / °C
Protection Rating	NEMA 4X		

\* Pending firmware upgrade

(1) These specifications apply to inverters with part numbers SExxxxH-US53xxxx or SE7600H-US53Hxxxx and connection unit model number DCD-1PH-US-PxH-F-x

(2) For other regional settings please contact SolarEdge support

(3) Not designed for standalone applications and requires AC for commissioning

(4) A higher current source may be used; the inverter will limit its input current to the values stated

(5) When connecting two LG Chem RESU batteries, each battery must have a different part number

(6) For consumption metering current transformers should be ordered separately: SEACT0750-200NA-20 or SEACT0750-400NA-20. 20 units per box.

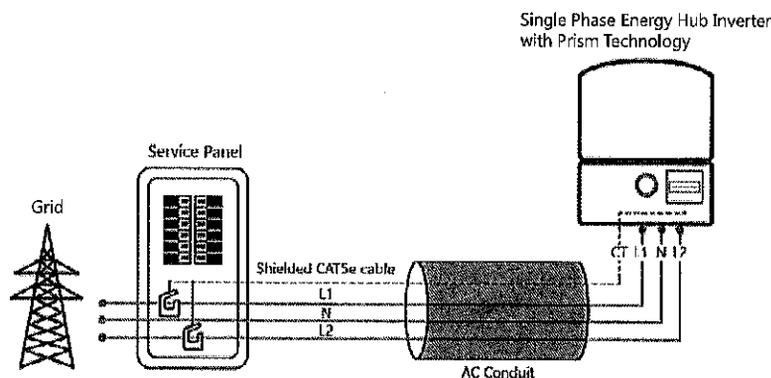
(7) For both 5-yr and 12-yr data plans:

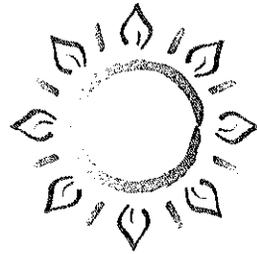
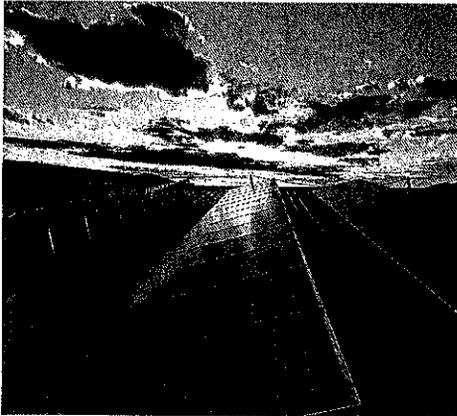
Customer is responsible for verifying that the site location has adequate mobile coverage by the third party service provider prior to any installation by accessing <https://www.solaredge.com/products/communication/cellular-communication-options#/>

SolarEdge shall not be responsible or liable for unavailability or discontinuance of network coverage in a specific area or region, any network downtime, or permanent service shutdown.

(8) 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>

## Connecting CTs to the Revenue Grade and Consumption Meter





# Green Leaf Solar

## Capability Statement

### COMPANY DESIGNATIONS

Duns: 091588445  
Business License: LC001577996  
FEIN: 82-4588953  
SBA Size Classification: Small  
SBA 8(a) Certification Pending



### CONTACT

1406B Lakeview Ave.  
Columbia, MO 65201  
PHONE: 573-639-2800  
WEBSITE: [www.greenleaf-solar.com](http://www.greenleaf-solar.com)  
EMAIL: [ryan@greenleaf-solar.com](mailto:ryan@greenleaf-solar.com)

### OUR SPECIALTIES

Energy Analysis Report, Site  
Assessment, Solar System Design,  
Commercial Solar Systems, Residential  
Solar Systems, Ground Mounted Solar  
Systems and Grid-tied or Off Grid  
Systems

### INTRODUCTION

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Green Leaf Solar once part of LB Industrial Services branched off to focus on solar installation. Green Leaf Solar installs solar for residential and all types of businesses. Solar directly offsets electricity use, and batteries can even lower demand charges. We manage all of our design and installation work in-house and maintain one of the most experienced installation teams in mid-Missouri. We have established strong relationships with Scott Electric and Stidham Electric in order to take on larger commercial installs.

### PERFORMANCES

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Erdel and Wood Home Improvement Center  
Design and Installation of 31.68KW system

Bismarck Public Schools  
Design and Installation of 46KW System

AW Law Firm  
Design and Installation of 26.325KW System

Over 200KW in Solar Systems installed in 2019

### NAICS CODES

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Primary Code:  
221114 Solar Electric Power Generation

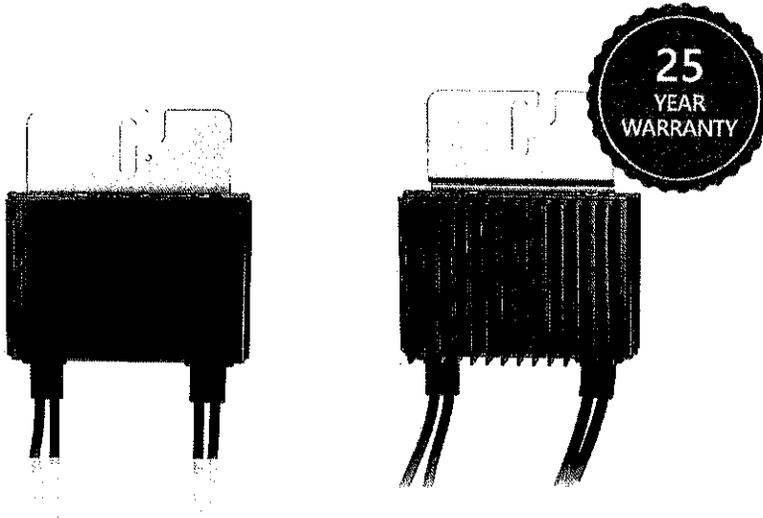
Secondary Code:  
221118 Other Electric Power Generation  
238210 Electrical Contractors and Other Wiring Contractors  
237130 Power and Communication Line Construction

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# Power Optimizer

For North America

P320 / P340 / P370 / P400 / P401 / P405 / P485 / P505



**POWER OPTIMIZER**

## PV power optimization at the module-level

- // Specifically designed to work with SolarEdge inverters
- // Up to 25% more energy
- // Superior efficiency (99.5%)
- // Mitigates all types of module mismatch losses, from manufacturing tolerance to partial shading
- // Flexible system design for maximum space utilization
- // Fast installation with a single bolt
- // Next generation maintenance with module-level monitoring
- // Meets NEC requirements for arc fault protection (AFCI) and Photovoltaic Rapid Shutdown System (PVRSS)
- // Module-level voltage shutdown for installer and firefighter safety

# Power Optimizer For North America

P320 / P340 / P370 / P400 / P401 / P405 / P485 / P505

Optimizer model (typical module compatibility)	P320 (for 60-cell modules)	P340 (for high-power 60-cell modules)	P370 (for higher-power 60 and 72-cell modules)	P400 (for 72 & 96-cell modules)	P401 (for high power 60 and 72 cell modules)	P405 (for high-voltage modules)	P485 (for high-voltage modules)	P505 (for higher current modules)
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INPUT								
Rated Input DC Power <sup>(1)</sup>	320	340	370	400	405	485	505	W
Absolute Maximum Input Voltage (Voc at lowest temperature)	48	60	80	60	125 <sup>(9)</sup>			Vdc
MPP Operating Range	8 - 48	8 - 60	8 - 80	8 - 60	12.5 - 105			Vdc
Maximum Short Circuit Current (Isc)	11	10.1	11.75	11	14			Adc
Maximum DC Input Current	13.75	12.5	14.65	12.5	17.5			Adc
Maximum Efficiency	99.5							
Weighted Efficiency	98.8							
Overvoltage Category	II							
OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING SOLAREDGE INVERTER)								
Maximum Output Current	15	60	15	85				Vdc
Maximum Output Voltage	60							
OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM SOLAREDGE INVERTER OR SOLAREDGE INVERTER OFF)								
Safety Output Voltage per Power Optimizer	1 ± 0.1							
Vdc								

STANDARD COMPLIANCE								
EMC	FCC Part 15 Class B, IEC61000-6-2, IEC61000-6-3							
Safety	IEC62109-1 (class II safety), UL1741							
Material	UL94 V-0, UV Resistant							
RoHS	Yes							

INSTALLATION SPECIFICATIONS								
Maximum Allowed System Voltage	1000							
Compatible Inverters	All SolarEdge Single Phase and Three Phase Inverters							
Dimensions (W x L x H)	129 x 153 x 27.5 / 5.1 x 6 x 1.1	129 x 153 x 33.5 / 5.1 x 6 x 1.3	129 x 153 x 29.5 / 5.1 x 6 x 1.16	129 x 159 x 49.5 / 5.1 x 6.3 x 1.9	129 x 162 x 59 / 5.1 x 6.4 x 2.3			
Weight (including cables)	630 / 14	750 / 17	655 / 15	845 / 19	1064 / 23			gr / lb
Input Connector	MC4 <sup>(10)</sup>							
Input Wire Length	0.16 / 0.52	0.16 or 0.9 / 0.52 or 2.95 <sup>(9)</sup>	0.16 / 0.52					
Output Wire Type / Connector	Double Insulated / MC4							
Output Wire Length	0.9 / 2.95	1.2 / 3.9						
Operating Temperature Range <sup>(8)</sup>	-40 - +85 / -40 - +185							
Protection Rating	IP68 / NEMA6P							
Relative Humidity	0 - 100 %							

(1) Rated power of the module at STC will not exceed the optimizer "Rated Input DC Power". Modules with up to +5% power tolerance are allowed.  
 (2) NEC 2017 requires max input voltage be not more than 80V.  
 (3) For other connector types please contact SolarEdge.  
 (4) For dual version for parallel connection of two modules use P485-4NM/DM/ML. In the case of an odd number of PV modules in one string, installing one P485 dual version power optimizer connected to one PV module. When connecting a single module seal the unused input connectors with the supplied pair of seals.  
 (5) Longer inputs wire length are available for use. For 0.9m input wire length order P401-xxxxxx.  
 (6) For ambient temperature above +85°C / +185°F power de-rating is applied. Refer to Power Optimizers Temperature De-Rating Technical Note for more details.

PV System Design Using a SolarEdge Inverter <sup>(7)(9)</sup>								
Single Phase	Single Phase	Single Phase	Three Phase for 208V grid	Three Phase for 277/480V grid				
P320, P340, P370, P400, P401	P405, P485, P505	6	8	10	18			
Minimum String Length (Power Optimizers)		6	8	10	18			
Maximum String Length (Power Optimizers)		25	25	25	50 <sup>(9)</sup>			
Maximum Power per String	5700 (6000 with SE7600-US - SE11400-US)	5250	6000 <sup>(10)</sup>	12750 <sup>(10)</sup>	W			
Parallel Strings of Different Lengths or Orientations								

(7) For detailed string sizing information refer to: [http://www.solaredge.com/sites/default/files/string\\_sizing\\_na.pdf](http://www.solaredge.com/sites/default/files/string_sizing_na.pdf)  
 (8) It is not allowed to mix P405/P485/P505 with P320/P340/P370/P400/P401 in one string.  
 (9) A string with more than 30 optimizers does not meet NEC rapid shutdown requirements; safety voltage will be above the 30V requirement.  
 (10) For 208V grid: it is allowed to install up to 6,500W per string when the maximum power difference between each string is 1,000W.  
 (11) For 277/480V grid: it is allowed to install up to 15,000W per string when the maximum power difference between each string is 2,000W.

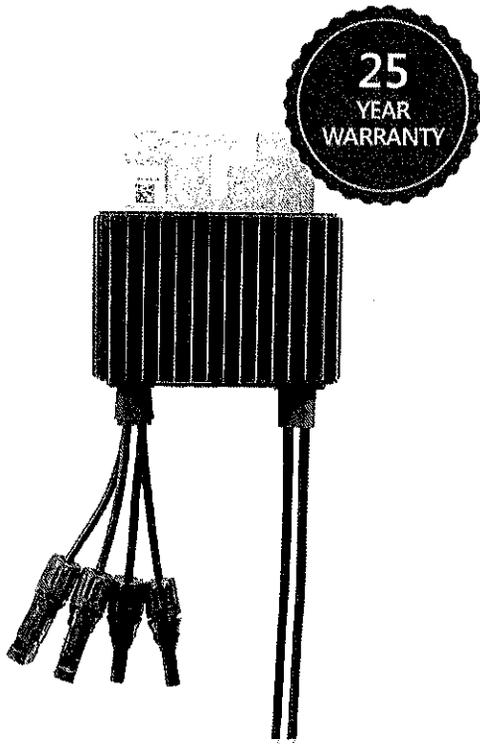
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# Power Optimizer For North America

P860



**POWER OPTIMIZER**

## PV power optimization at the module-level

The most cost effective solution for commercial and large field installations

- // Specifically designed to work with SolarEdge inverters
- // Up to 25% more energy
- // Superior efficiency (99.5%)
- // Balance of System cost reduction; 50% less cables, fuses and combiner boxes, over 2x longer string lengths possible
- // Fast installation with a single bolt
- // Advanced maintenance with module-level monitoring
- // Module-level voltage shutdown for installer and firefighter safety
- // Meets NEC requirements for arc fault protection (AFCI) and Photovoltaic Rapid Shutdown System (PVRSS)
- // Use with two PV modules connected in parallel

# Power Optimizer For North America

P860

**Optimizer Model (Typical Module Compatibility)**  
P860 (for 2 x 72 cell modules)

## INPUT

Rated Input DC Power <sup>(1)</sup>	860	W
Connection Method	Dual input for independently connected modules <sup>(2)</sup>	
Absolute Maximum Input Voltage (Voc at lowest temperature)	60	Vdc
MPP Operating Range	12.5 - 60	Vdc
Maximum Short Circuit Current (Isc)	22	Adc
Maximum Short Circuit Current per input (Isc)	11	Adc
Maximum Efficiency	99.5	%
Weighted Efficiency	98.6	%
Overvoltage Category	II	

## OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING SOLAREEDGE INVERTER)

Maximum Output Current	18	Adc
Maximum Output Voltage	85	Vdc

## OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM SOLAREEDGE INVERTER OR SOLAREEDGE INVERTER OFF)

Safety Output Voltage per Power Optimizer	1 ± 0.1	Vdc
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## STANDARD COMPLIANCE

Photovoltaic Rapid Shutdown System	Compliant with NEC 2014, 2017 <sup>(3)</sup>
EMC	FCC Part 15 Class B, IEC61000-6-2, IEC61000-6-3
Safety	IEC62109-1 (class II safety), UL1741
Material	UL94 V-0, UV Resistant
RoHS	Yes

## INSTALLATION SPECIFICATIONS

Compatible SolarEdge Inverters	Three phase inverters	
Maximum Allowed System Voltage	1000	
Dimensions (W x L x H)	129 x 168 x 59 / 51 x 6.61 x 2.32	
Weight	1064 / 2.34	
Input Connector	MC4 <sup>(4)</sup>	
Input Wire Length <sup>(5)</sup>	Lengths options	Input #1
	(1)	(-) 0.16 / 0.52, (+) 0.16 / 0.52
Output Wire Type / Connector	(2)	(-) 1.6 / 5.24, (+) 0.16 / 0.52
	Double Insulated, MC4	
Output Wire Length	2.1 / 6.8 <sup>(6)</sup>	
Operating Temperature Range <sup>(7)</sup>	-40 - +85 / -40 - +185	
Protection Rating	IP68 / NEMA6P	
Relative Humidity	0 - 100	

<sup>(1)</sup> Rated power of the module at STC will not exceed the optimizer Rated Input DC Power. Modules with up to +5% power tolerance are allowed.  
<sup>(2)</sup> In case of odd number of PV modules in one string, it is allowed to install one P860 power optimizer connected to one PV module. When connecting a single module to P860, seal the unused input connectors with the supplied part of seals.  
<sup>(3)</sup> NEC 2017 requires max combined input voltage be not more than 80V.  
<sup>(4)</sup> For other connector types please refer to <https://www.solareedge.com/sites/default/files/optimizer-input-connector-compatibility.pdf>.  
<sup>(5)</sup> Longer input wire length are available for use with split junction box modules. (For option 2 order P860-xxxxx).  
<sup>(6)</sup> When using longer input wire length, the output wire length is 2.2m / 7.2ft.  
<sup>(7)</sup> For ambient temperature above +70°C / +158°F power de-rating is applied. Refer to Power Optimizers Temperature De-Rating Application Note for more details.

## PV System Design Using a SolarEdge Inverter<sup>(8)</sup>

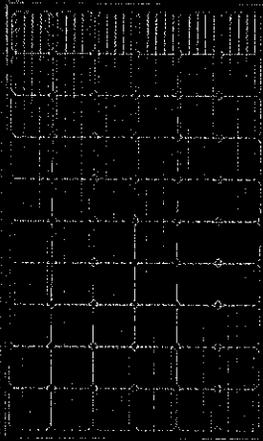
Minimum String Length	Power Optimizers	8
	PV Modules	16
Maximum String Length	Power Optimizers	30
	PV Modules	60
Maximum Power per String	7200 <sup>(9)</sup>	
Parallel Strings of Different Lengths or Orientations	Yes	

<sup>(8)</sup> It is not allowed to mix P860 with P730/P800P/P850 in one string or to mix with P320/P341/P370/P400/P405/P505 in one string.  
<sup>(9)</sup> P860 design with three phase 208V inverters is limited. Use the SolarEdge Designer for verification.  
<sup>(10)</sup> For 208V grid. It is allowed to install up to 7,200W per string when the maximum power difference between each string is 1,000W.  
<sup>(11)</sup> For 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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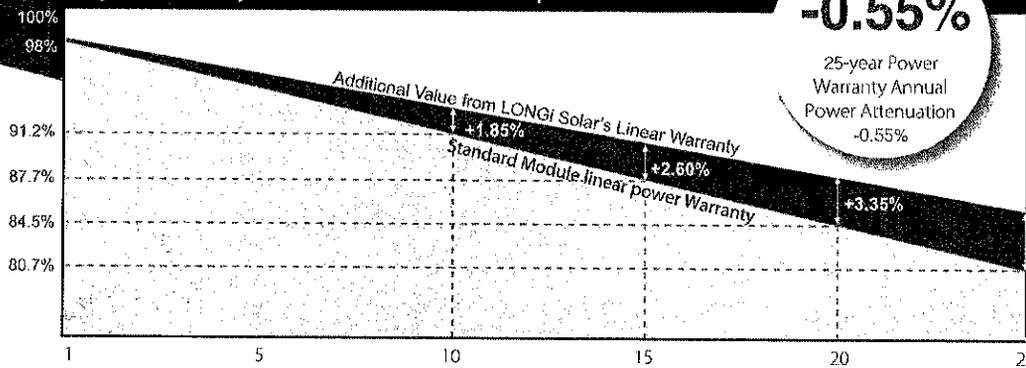
# LR6-60PB 295~315M



## Hi-MO1 High Efficiency Low LID Mono PERC Technology (60C/All Black Module)

*Aesthetic appearance with black frame and  
backsheet, best suited for rooftop installation*

10-year Warranty for Materials and Processing;  
25-year Warranty for Extra Linear Power Output



### Complete System and Product Certifications

IEC 61215, IEC61730, UL1703

ISO 9001:2008: ISO Quality Management System

ISO 14001: 2004: ISO Environment Management System

TS62941: Guideline for module design qualification and type approval

OHSAS 18001: 2007 Occupational Health and Safety



\* Specifications subject to technical changes and tests. LONGI Solar reserves the right of interpretation.

**Positive power tolerance** (0 ~ +5W) guaranteed

**High module conversion efficiency** (up to 19.3%)

**Slower power degradation** enabled by Low LID Mono PERC technology: first year <2%, 0.55% year 2-25

**Better energy yield** with excellent low irradiance performance and temperature coefficient

**Solid PID resistance** ensured by solar cell process optimization and careful module BOM selection

**Adaptable to harsh environment:** passed rigorous salt mist and ammonia tests

**Robust frame** (40mm) withstands mechanical loading of 5400Pa for snow load on front and 2400Pa for wind load on rear side

# LONGI Solar

Room 201, Building 8, Sandhill Plaza, Lane 2290, Zuchongzhi Road, Pudong District, Shanghai, 201203  
Tel: +86 21-61047332 Fax: +86-21-61047377 E-mail: module@longi-silicon.com  
Facebook: www.facebook.com/LONGI Solar

Note: Due to continuous technical innovation, R&D and improvement, technical data above mentioned may be of modification accordingly. LONGI Solar have the sole right to make such modification at anytime without further notice; Demanding party shall request for the latest datasheet for such as contract need, and make it a consisting and binding part of lawful documentation duly signed by both parties.

# LR6-60PB-295~315M

## Design (mm) Mechanical Parameters Operating Parameters

**Cell Orientation:** 60° (6x10)

**Junction Box:** IP67, three diodes

**Output Cable:** 4mm<sup>2</sup>, 1000mm in length

**Glass:** 3.2mm coated tempered glass

**Weight:** 18.2kg

**Dimension:** 1650x991x40mm

**Packaging:** 26pcs per pallet

**156pcs per 20'GP**

**728pcs per 40'HC**

**Operational Temperature:** -40°C ~ +85°C

**Power Output Tolerance:** 0 ~ +5 W

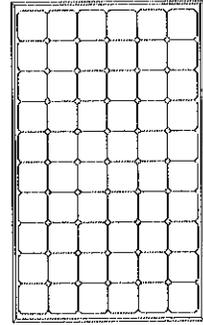
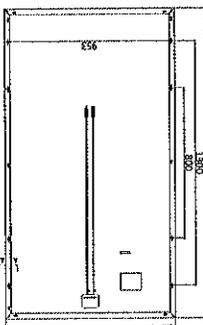
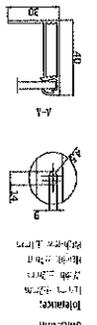
**Maximum System Voltage:** DC1000V (IEC&UL)

**Maximum Series Fuse Rating:** 20A

**Nominal Operating Cell Temperature:** 45±2°C

**Application Class:** Class II

**Fire Rating:** UL Type 4

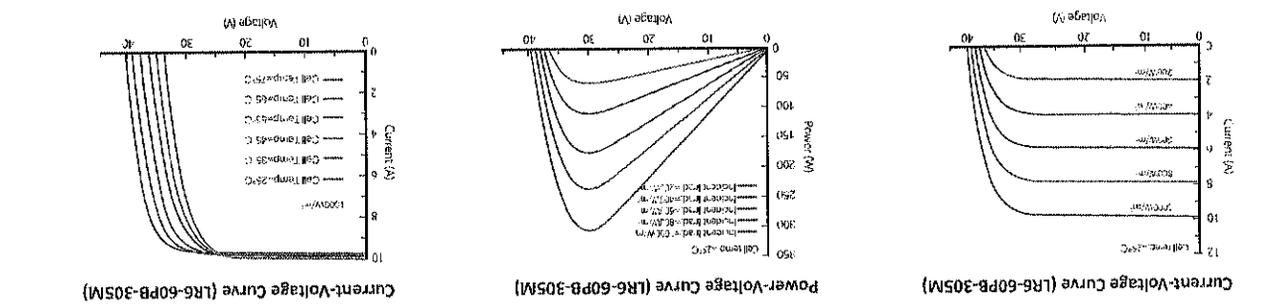
## Electrical Characteristics

Model Number	STC	NOCT	LR6-60PB-295M	STC	NOCT	LR6-60PB-300M	STC	NOCT	LR6-60PB-305M	STC	NOCT	LR6-60PB-310M	STC	NOCT	LR6-60PB-315M
Fasting Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	NOCT
Maximum Power (Pmax/W)	295	218.5	300	222.2	305	225.9	310	229.6	315	233.4	NOCT	NOCT	NOCT	NOCT	NOCT
Open Circuit Voltage (Voc/V)	39.7	37.1	39.9	37.2	40.2	37.5	40.5	37.8	40.8	38.1	NOCT	NOCT	NOCT	NOCT	NOCT
Short Circuit Current (Isc/A)	9.92	8.00	9.96	8.03	9.99	8.05	10.02	8.08	10.05	8.10	NOCT	NOCT	NOCT	NOCT	NOCT
Voltage at Maximum Power (Vmp/V)	32.0	29.6	32.3	29.8	32.7	30.2	33.1	30.6	33.5	30.9	NOCT	NOCT	NOCT	NOCT	NOCT
Current at Maximum Power (Imp/A)	9.21	7.39	9.28	7.44	9.33	7.48	9.36	7.51	9.41	7.55	NOCT	NOCT	NOCT	NOCT	NOCT
Module Efficiency(%)	18.0	18.3	18.7	19.0	19.3	NOCT	NOCT	NOCT	NOCT	NOCT	NOCT	NOCT	NOCT	NOCT	NOCT
STC (Standard Testing Conditions): Irradiance 1000W/m <sup>2</sup> , Cell Temperature 25°C, Spectra at AM1.5															
NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m <sup>2</sup> , Ambient Temperature 20°C, Spectra at AM1.5, Wind at 1m/s															

## Temperature Ratings (STC) Mechanical Loading

Temperature Coefficient of Isc	+0.057%/C	Front Side Maximum Static Loading	5400Pa
Temperature Coefficient of Voc	-0.286%/C	Rear Side Maximum Static Loading	2400Pa
Temperature Coefficient of Pmax	-0.370%/C	Hailstone Test	25mm Hailstone at the speed of 23m/s

## I-V Curve



Room 201, Building 8, Sandhill Plaza, Lane 2290, Zuchongzhi Road, Pudong District, Shanghai, 201203  
 Tel: +86 21-61047332 Fax: +86 21-61047377 E-mail: module@longi-silicon.com  
 Facebook: www.facebook.com/LONGISolar

Note: Due to continuous technical innovation, R&D and improvement, technical data above mentioned may be of modification accordingly. LONGI Solar have the sole right to make such modification at anytime without further notice; Demanding party shall request for the latest datasheet for such as contract need, and make it a consisting and binding part of lawful documentation duly signed by both parties.

# CULLIMORE COTTAGES

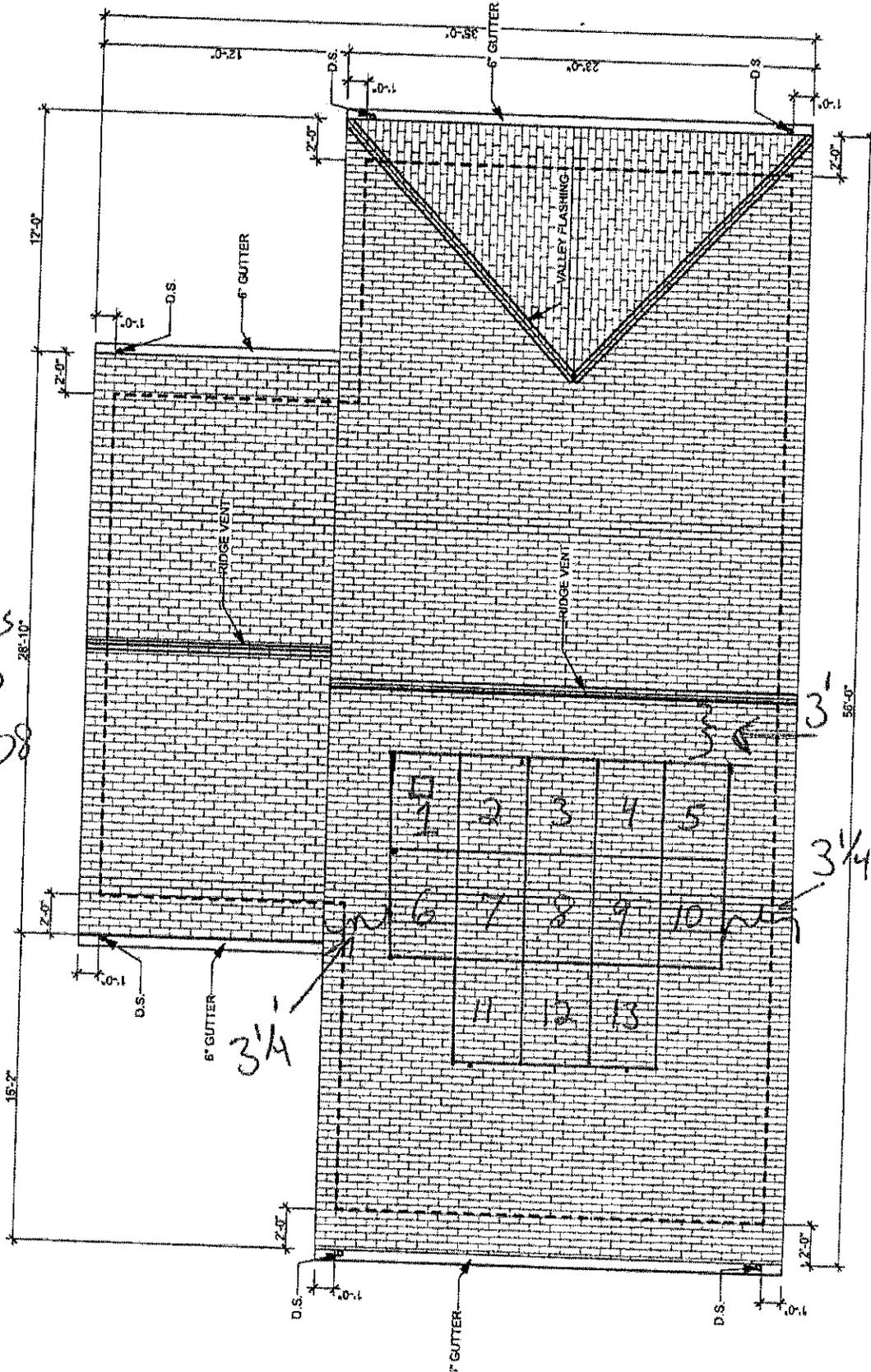
RANDY COLE  
573-874-8321  
500 E WALNUT SUITE 108  
COLUMBIA MO 65206

1919  
MEGAN  
NICK  
1/8/20

PROJECT NO:  
DRAWN BY:  
CHECKED BY:  
DATE:  
REVISIONS:

## ROOF PLAN PLAN A-1 A103

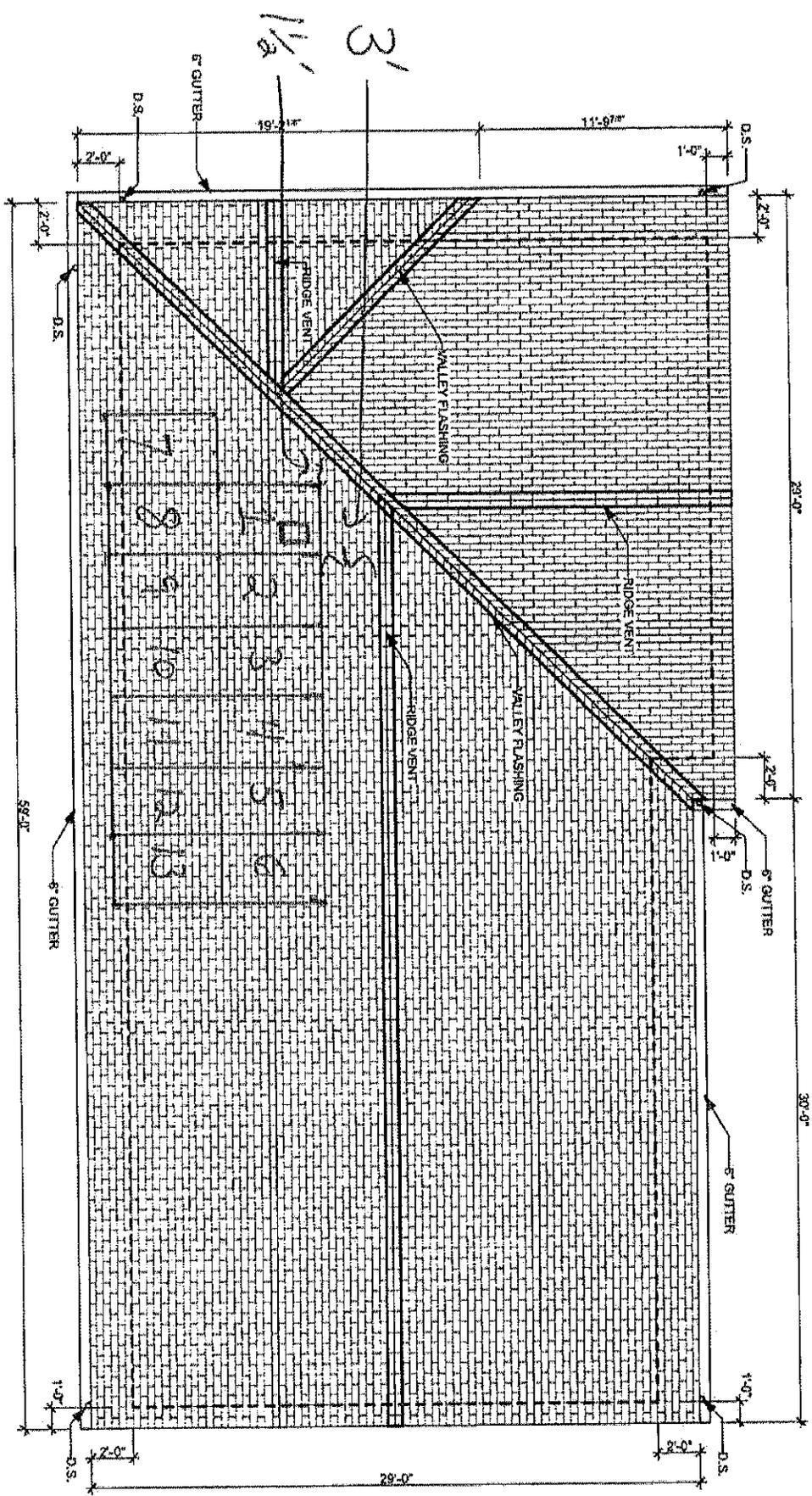
CONSTRUCTION SET  
01/06/2020



*Drawings of 1100  
1104 + 1108*

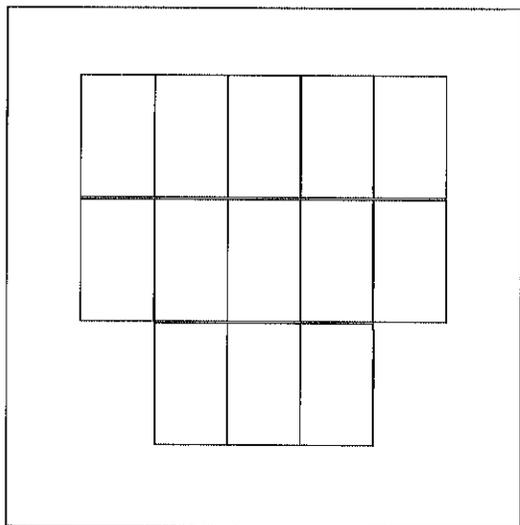
ROOF PLAN  
SCALE: 1/4" = 1'-0"

Drawings for 1102 + 1106



PROJECT INFORMATION	
PROJECT SITE	1100 COATS ST, COLUMBIA, MO 65201
UTILITY COMPANY	CITY OF COLUMBIA
ELECTRICAL SERVICE	120/240V 1Ø
ASHRAE EXTREME LOW	-13°C (9°F)
ASHRAE 2% HIGH	35°C (95°F)
CLIMATE DATA SOURCE	SEDALIA MEMORIAL (KDMO)

ELECTRICAL PROPERTIES	
ELECTRICAL CODE	2017 NEC (NFPA 70)
MODULE	LONGI SOLAR LR6-60PB-310M
INVERTERS	1 X SOLAR EDGE SE3800H-US3000XX4
OPTIMIZERS	SOLAR EDGE P320 OPTIMIZER
ARRAY WIRING	(1) STRING OF 13
DC POWER RATING	4.03kW DC
MAX. AC OUTPUT	16.6A
EST. FIRST YEAR PROD.	4,592 KWH



ARRAY PROPERTIES	
ROOF MATERIAL	COMPOSITION SHINGLE
SLOPE	7/12 (36.3°)
CONSTRUCTION	RAFTERS (2X4S), 24IN OC

SYSTEM COMPONENTS	
QTY	DESCRIPTION
13	LONGI SOLAR LR6-60PB-310M 310W, 60 CELLS, 40 MM, MONO PERC
1	SOLAR EDGE SE3800H-US3000XX4 3800W INVERTER
13	SOLAR EDGE P320 OPTIMIZER

P-155755



GRID-TIED SOLAR POWER SYSTEM  
 1100 COATS ST  
 COLUMBIA, MO 65201

CONCEPT DESIGN

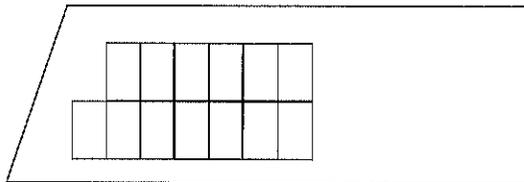
PROJECT ID: 155755  
 DATE: 3/18/21  
 CREATOR: R.R.  
 REVIEWER:

REVISIONS	

PV-0.1

PROJECT INFORMATION	
PROJECT SITE	1102 COATS ST, COLUMBIA, MO 65201
UTILITY COMPANY	CITY OF COLUMBIA
ELECTRICAL SERVICE	120/240V 1Ø
ASHRAE EXTREME LOW	-18°C (0°F)
ASHRAE 2% HIGH	35°C (95°F)
CLIMATE DATA SOURCE	SEDALIA MEMORIAL (KDMO)

ELECTRICAL PROPERTIES	
ELECTRICAL CODE	2017 NEC (NFPA 70)
MODULE	LONGI SOLAR LRS-66PB-310M
INVERTERS	1 X SOLAR EDGE SE3800H-US000BXX4
OPTIMIZERS	SOLAR EDGE P320 OPTIMIZER
ARRAY WIRING	(1) STRING OF 13
DC POWER RATING	4.03KW DC
MAX. AC OUTPUT	16.6A
EST. FIRST YEAR PROD.	5,862 KWH



ARRAY PROPERTIES	
ROOF MATERIAL	COMPOSITION SHINGLE
SLOPE	7/12 (30.3°)
CONSTRUCTION	RAFTERS (2X4S), 24IN OC

SYSTEM COMPONENTS	
QTY	DESCRIPTION
13	LONGI SOLAR LRS-66PB-310M 310W, 60 CELLS, 40 MM, MONO PERC
1	SOLAR EDGE SE3800H-US000BXX4 3800W INVERTER
13	SOLAR EDGE P320 OPTIMIZER

P-155821



GRID-TIED SOLAR POWER SYSTEM

1102 COATS ST  
COLUMBIA, MO 65201

CONCEPT DESIGN

PROJECT ID: 155821  
DATE: 3/18/21  
CREATOR: R.R.  
REVIEWER:

REVISIONS

NO.	DESCRIPTION

PV-0.1



828 Airport Blvd  
Austin, TX 78702

March 18, 2021

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To whom it may concern,

Green Leaf Solar's account is in GOOD standing with Kinect Solar, LLC. Currently they have a balance of \$0.00 past due with a lifetime sales total of \$74,057.61.

Please use this letter as a **positive** credit reference for Green Leaf Solar's account with Kinect Solar, LLC.

Thank you,

Dugger Faulkner

Dugger Faulkner  
Director of Finance