Conceptual Review Agenda

Meetings hosted via Zoom Web Conferencing

Please use the URL and Meeting ID # listed below to join the Review Meeting

Review Date

1/9/2025 9:15 AM

Project Name

Solar Facility at Krieger Property

CDR240079

Planner: Clark Mapes

Engineer: Tim Dinger

DRC: Seth Goldstein

Applicant

Brysen Daughton

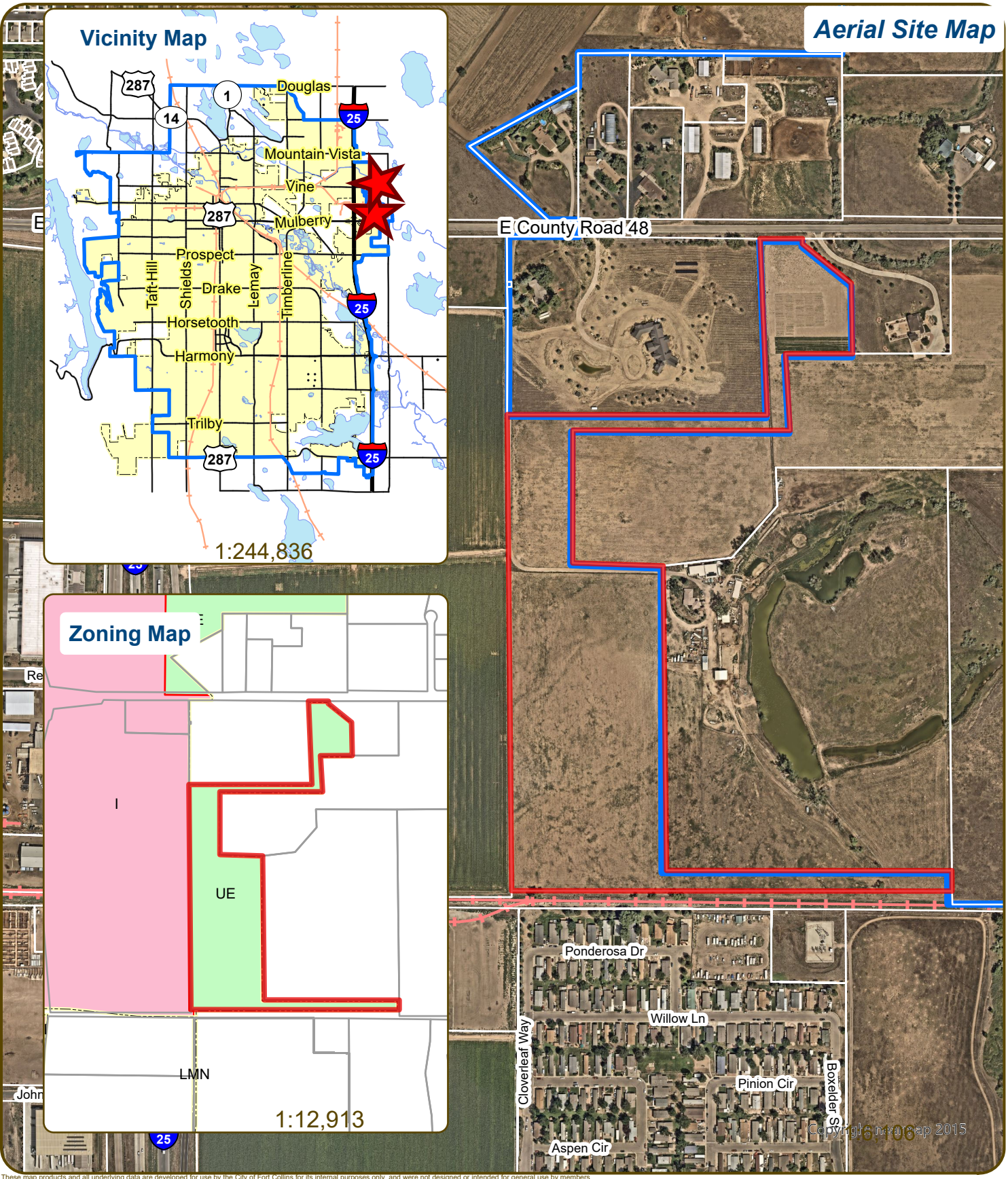
970.425.3501

development@cloudbreakenergy.com

Description

This is a request to construct a solar facility at 4557 E County Rd 48 (parcel # 8710219702). The applicant is proposing a large-scale solar array. Access can be taken from E County Rd 48. The property is approximately 0.26 mi east of Interstate 25 and approximately 0.51 mi north of E Mulberry. The site is located in the Urban Estate (UE) zone district and the project is subject to an Addition of Permitted Use (APU) Review.

Solar Facility at 4557 E County Rd- Solar Facility



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City of Fort Collins GIS

CONCEPTUAL REVIEW:
APPLICATION

General Information
All proposed development projects begin with Conceptual Review. Anyone with a development idea can schedule a Conceptual Review meeting to get feedback on prospective development ideas. At this stage, the development idea does not need to be finalized or professionally presented. However, a sketch plan and this application must be submitted to City Staff prior to the Conceptual Review meeting. The more information you are able to provide, the better feedback you are likely to get from the meeting. Please be aware that any information submitted may be considered a public record, available for review by anyone who requests it, including the media. The applicant acknowledges that they are acting with the owner's consent.

Conceptual Reviews are scheduled on three Thursday mornings per month on a "first come, first served" basis and are a free service. One 45 meeting is allocated per applicant and only three conceptual reviews are done each Thursday morning. A completed application must be submitted to reserve a Conceptual Review time slot. **Complete applications and sketch plans must be submitted to City Staff on Thursday, no later than end of day, two weeks prior to the meeting date.** Application materials must be e-mailed to preappmeeting@fcgov.com. If you do not have access to e-mail, other accommodations can be made upon request.

At Conceptual Review, you will meet with Staff from a number of City departments, such as Community Development and Neighborhood Services (Zoning, Current Planning, and Development Review Engineering), Light and Power, Stormwater, Water/Waste Water, Advance Planning (Long Range Planning and Transportation Planning) and Poudre Fire Authority. Comments are offered by staff to assist you in preparing the detailed components of the project application. There is no approval or denial of development proposals associated with Conceptual Review. At the meeting you will be presented with a letter from staff, summarizing comments on your proposal.
BOLDED ITEMS ARE REQUIRED *The more info provided, the more detailed your comments from staff will be.*
Contact Name(s) and Role(s) (Please identify whether Consultant or Owner, etc) Brysen Daughton, Sr Project Developer, Consultant; Ally O'Neill, Sr Development Analyst, Consultant

Are you a small business? ■ Yes □ No **Business Name** (if applicable) Cloudbreak Energy Partners, LLC

Your Mailing Address 4845 PEARL EAST CIRCLE STE 118 #53242BOULDER, CO 80301

Phone Number 970.425.3501 Email Address development@cloudbreakenergy.com

Site Address or Description (parcel # if no address) parcel ID: 8710219702; Address: 4557 E COUNTY ROAD 48, Ft. Collins, CO

Description of Proposal (attach additional sheets if necessary) We are requesting that the Ciy considers allowing an large-scale solar as an additional permitted use on the Krieger's Property. This project would use approximately 14.5 acres of land used for agricultural production and zoned Urban Estate. This solar array would be adjacent to another array.

Proposed Use Large-scale solar facility **Existing Use** Urban Estate (Agricultural)

Total Building Square Footage NA S.F. Number of Stories NA Lot Dimensions

Age of any Existing Structures NA

Info available on Larimer County's Website: http://www.co.larimer.co.us/assessor/query/search.cfm
If any structures are 50+ years old, good quality, color photos of all sides of the structure are required for conceptual.

Is your property in a Flood Plain? □ Yes ■ No If yes, then at what risk is it?

Info available on FC Maps: http://gisweb.fcgov.com/redirect/default.aspx?layerTheme=Floodplains.

Increase in Impervious Area the solar array won't considerably increase the imperviousness of the soil & we will be planting a dryland pasture beneath it S.F.
(Approximate amount of additional building, pavement, or etc. that will cover existing bare ground to be added to the site)

Suggested items for the Sketch Plan:
Property location and boundaries, surrounding land uses, proposed use(s), existing and proposed improvements (buildings, landscaping, parking/drive areas, water treatment/detention, drainage), existing natural features (water bodies, wetlands, large trees, wildlife, canals, irrigation ditches), utility line locations (if known), photographs (helpful but not required). Things to consider when making a proposal: How does the site drain now? Will it change? If so, what will change? Solar does not typically impact drainage, but we are willing to perform drainage studies and mitigate any impacts as needed.

CO-KRIEGER FORT SOLAR PHOTOVOLTAIC PROJECT

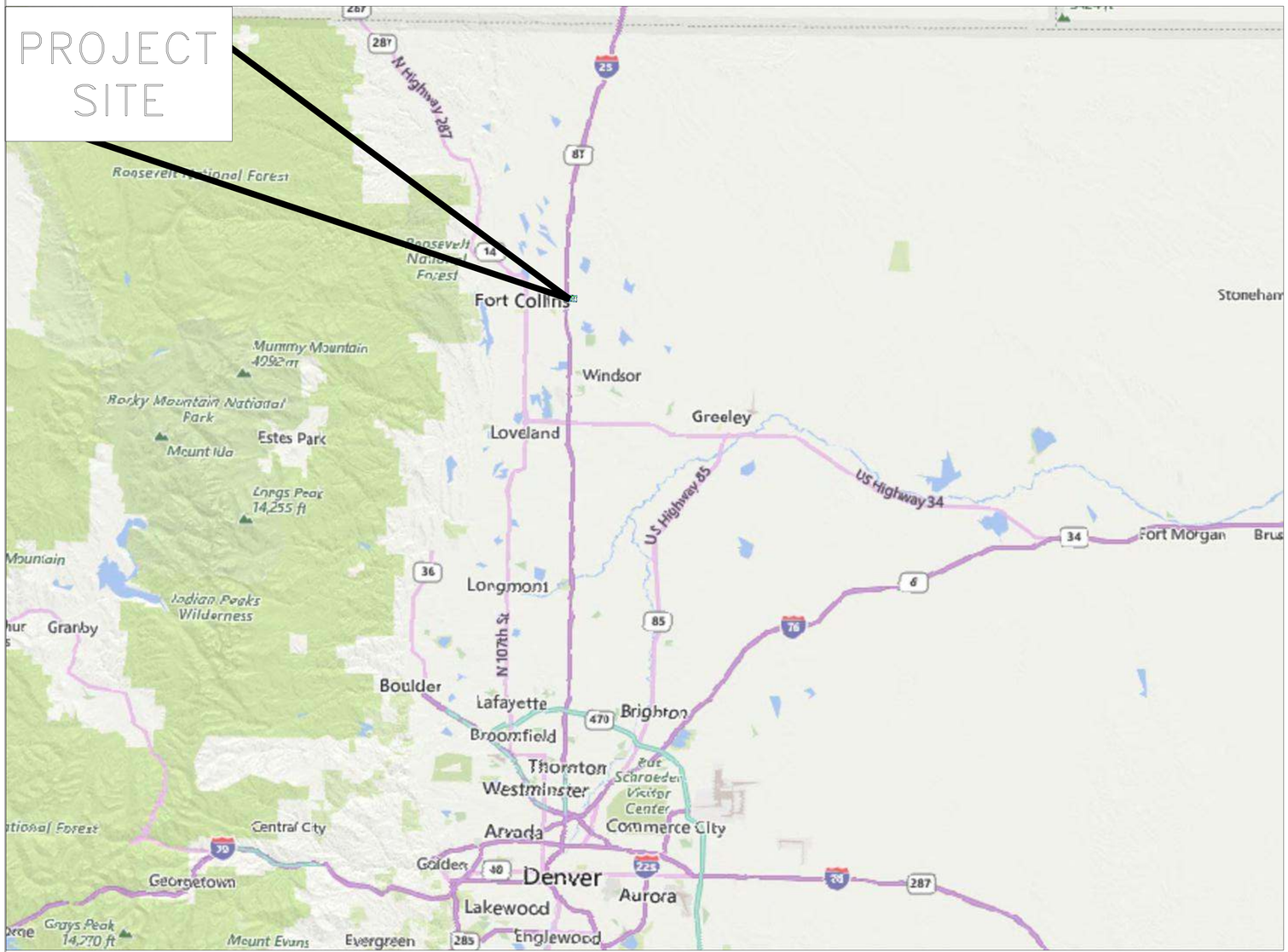
PRELIMINARY PV DESIGN

3.25MWAC/3.903MWDC - 13.2KV@POI

SAT TRACKER-1P/BIFACIAL MODULES

NEAR

4557 E VINE DR, FORT COLLINS, CO 80524



VICINITY MAP
NTS

DEVELOPMENT LEVEL DRAWINGS v1.0

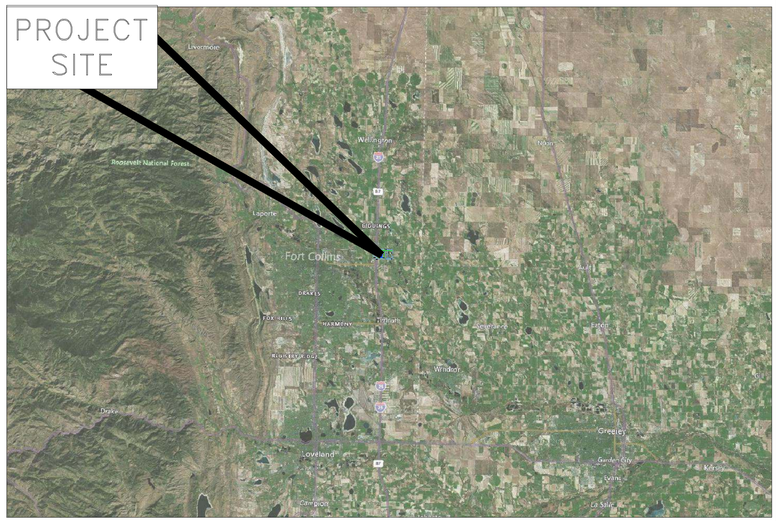
N

PROJECT COORDINATES

LAT: 40.590652°
LONG: −104.995255°

DRAWINGS LIST

SHEET #	SHEET NAME	REV#	DATE
T−100	TITLE SHEET	v1.0	11/25/2024
C−100	PV SOLAR SITE PLAN (+AERIAL MAP)	v1.0	11/25/2024
C−200	PV SOLAR SITE PLAN (+CONTOURS)	v1.0	11/25/2024
D−100	RACKING SYSTEM DATASHEET	v1.0	11/25/2024
D−200	PV INVERTER DATASHEET	v1.0	11/25/2024
D−300	SOLAR PANEL DATASHEET	v1.0	11/25/2024



PROJECT AREA
NTS

PROJECT DEVELOPER

CLOUDBREAK ENERGY PARTNERS
WWW.CLOUDBREAKENERGY.COM
CLOUDBREAK ENERGY PARTNERS
(970).580−5652

PREPARED FOR:

ENGINEERING & DESIGN

RYDBERG POWER
RENEWABLE ENERGY ENGINEERING & DESIGN
WWW.RYDBERGPOWER.COM
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FOR CONSTRUCTION
NOT FOR CONSTRUCTION

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3.25MWAC/3.903MWDC - 13.2KV@POI
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v1.0	PRELIMINARY. ISSUED FOR REVIEW	11/25/2024	PMG	RDSM	

DATE: 11/25/2024
DRAWN BY: JNM
ENGINEER: −
APPROVED BY: −

SHEET TITLE:

TITLE SHEET

SHEET NO.:

T-100

KRIEFER FORT SOLAR PROJECT
PV SOLAR FARM[V1.0]
3.25MWAC/3.903MWDC
SAT/1P, 540W-BIF, 13.2kV

SYSTEM SUMMARY	
DESIGN TEMPERATURES	
HIGH TEMP (2%)	32°C
ANNUAL EXTREME MEAN MIN	-22.8°C
PV INVERTER	
PV INVERTER TYPE & COUNT	SOLECTRIA STRING INVERTERS XGI 1500-250/250-600(x13)
INVERTER OUTPUT	250kWAC/250KVA
AC SYSTEM OUTPUT @POI	3.25MWac/3.25MVA
SOLAR MODULE	
MANUFACTURER:	LONGI SOLAR
MODULE MODEL:	LR5-72HBD-540
MODULE OUTPUT:	540W/BIFACIAL @STC
MODULE COUNT:	7,228MODULES
STRING COUNT:	278(x26MODULES/STRING)
VMAX (CORRECTED):	1461.71Vdc
DC SYSTEM OUTPUT	3.903MWdc
DC/AC RATIO @POI:	1.2
RACKING	
MANUFACTURER:	ATI DURATRACK
CONFIGURATION:	1-IN PORTRAIT/SAT
TILT/ROTATION ANGLE:	55°
ROW TO ROW SPACING (CENTER TO CENTER)	19FT
GROUND COVER RATIO LINEAR (GCR)	39.00%
END TO END SPACING (MODULE TO MODULE)	11.6FT
FOUNDATION:	PILE DRIVEN POSTS
AZIMUTH:	180°
PROJECT SITE	
TOTAL LEASED AREA SIZE	—
TOTAL PROJECT AREA INSIDE FENCELINE	14.52ACRES
INTERCONNECTION VOLTAGE	13.2kV
FEEDER/SUBSTATION	—

NOTES
- THESE PLANS ARE DIAGRAMATIC. DO NOT SCALE FROM THESE DRAWINGS.
- GEOTECHNICAL,TOPOGRAPHIC, HYDROLOGY STUDY AND CONSTRAINT SURVEY RECOMMENDED TO CONFIRM THE CONSTRUCTIBILITY OF THE AREAS SELECTED FOR PV ARRAY AND ALL ASSOCIATED INSTALLATIONS.
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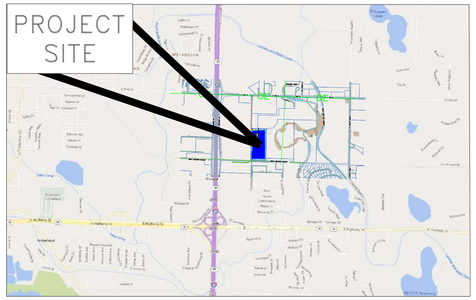
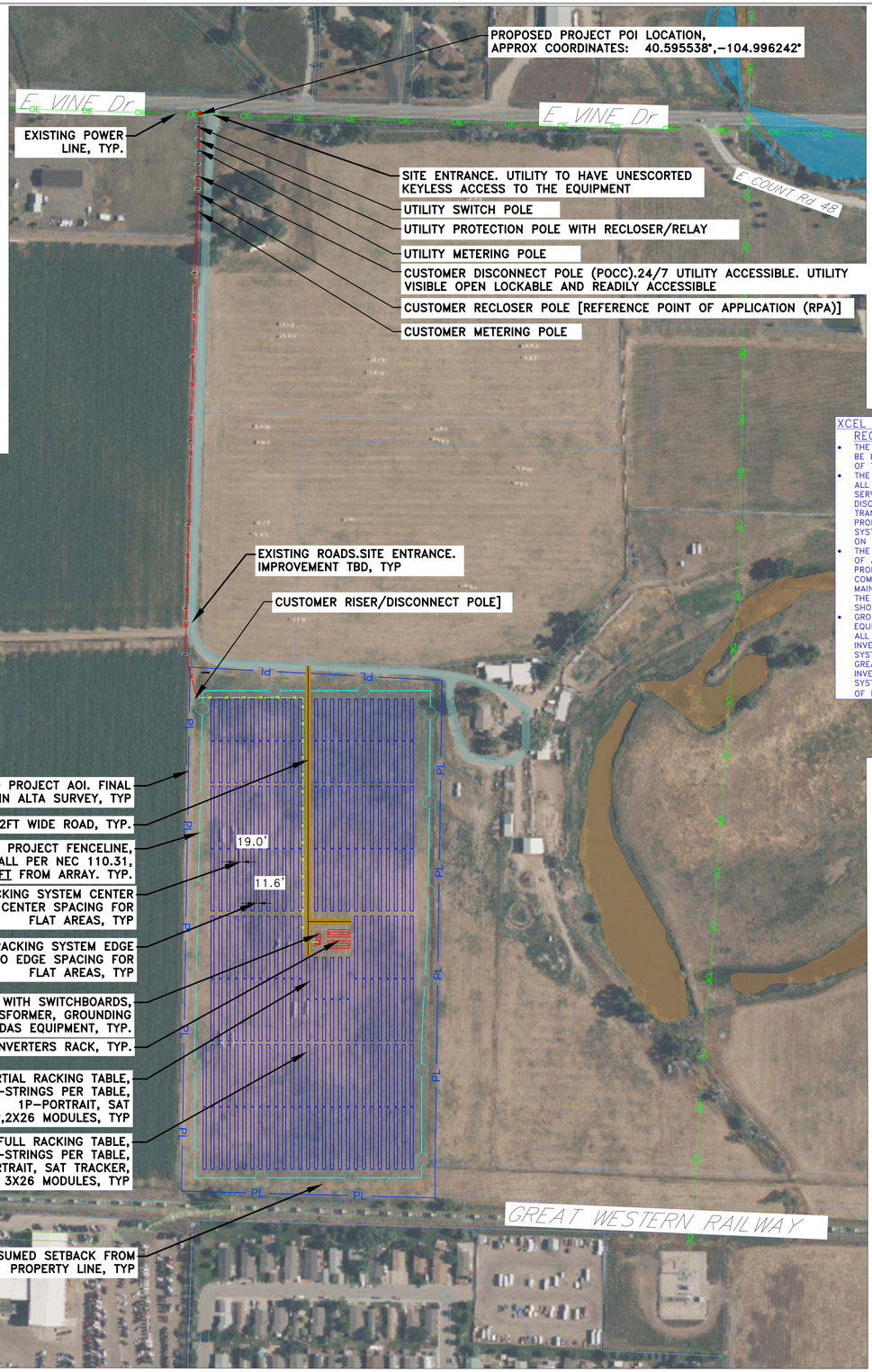
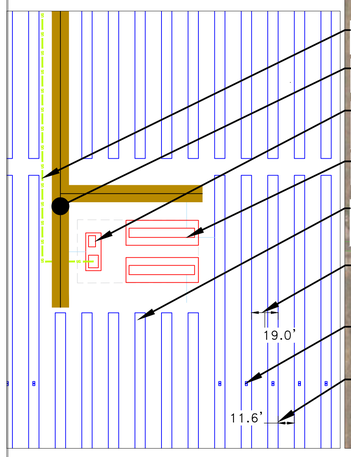


6 PROJECT AREA MAP
NTS





1 PV ARRAY DETAIL
NTS"

N

2 PV SOLAR SITE PLAN (+AERIAL MAP)
1"= 150'-0"

5 PROJECT VISUALS
NTS

XCEL ENERGY NOTES & REQUIREMENTS:
- THE AC DISCONNECT IS TO BE LOCATED WITHIN 10 FEET OF THE MAIN BILLING METER.
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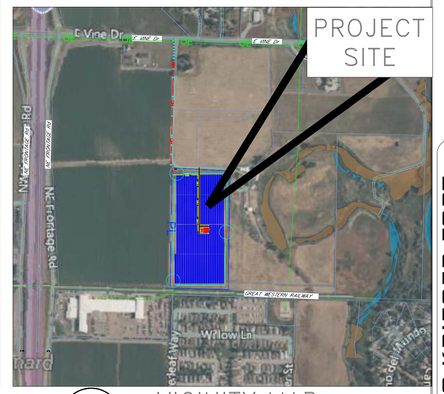

4 VICINITY MAP
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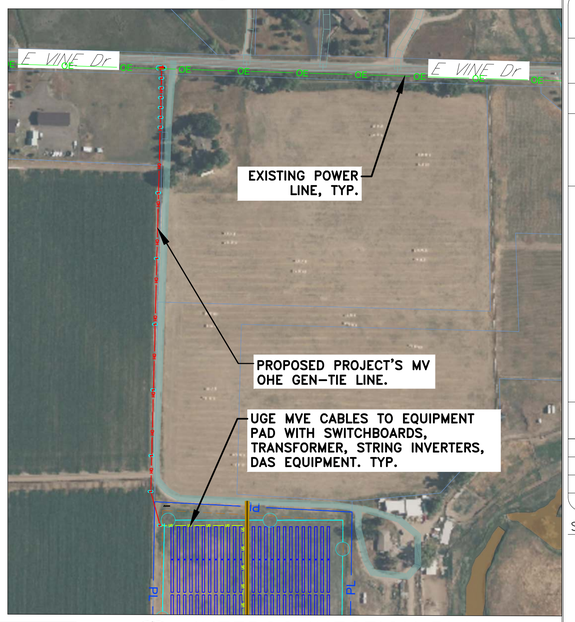

3 INTERCONNECTION PLAN
NTS

PROJECT COORDINATES
LAT: 40.590652°
LONG: -104.995255°

PROJECT DEVELOPER
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DRAWN BY: JNM
ENGINEER: -
APPROVED BY: -

SHEET TITLE:
PV SITE PLAN + AERIAL IMAGE

SHEET NO.:
C-100

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KRIEFER FORT SOLAR PROJECT
PV SOLAR FARM[v1.0]
3.25MWac/3.903MWdc
SAT/1P, 540W-BIF, 13.2kV

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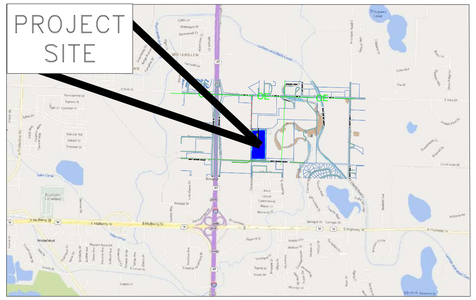

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NTS"

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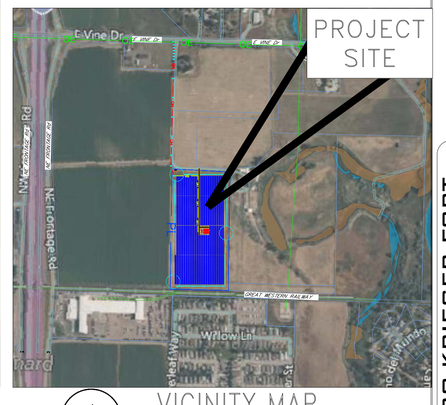

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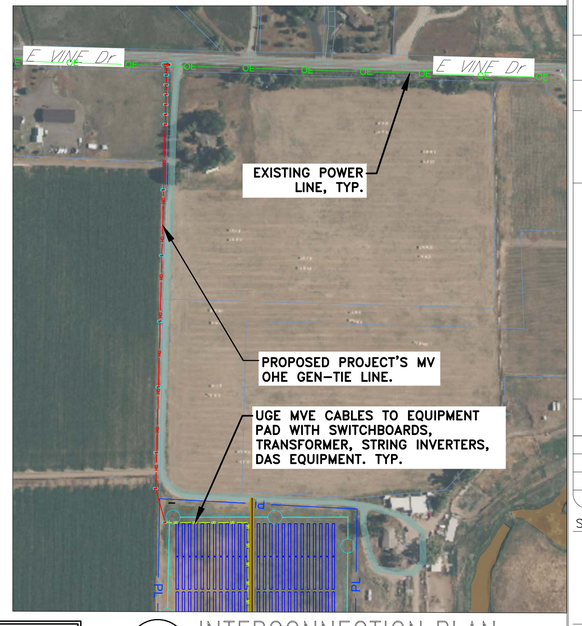

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DRAWN BY: JNM
ENGINEER: —
APPROVED BY: —

SHEET TITLE:
PV SITE PLAN + CONTOURS

SHEET NO.:
C-200

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ARRAY TECHNOLOGIES FOLLOW THE SUN. FOLLOW THE LEADER.

ENGINEERED SIMPLICITY

99.9% UPTIME

7% LOWER LCOE

31% LOWER LIFETIME O&M

Array DuraTrack®

The most durable, reliable tracking system under the sun. While our single-bolt module clamp and forgiving tolerances streamline installation, and our flexibly linked architecture maximizes power density, it's our innovative use of fewer components and a failure-free wind management system that makes Array Technologies the best choice for solar trackers. Better. Stronger. Smarter.

Zero Scheduled Maintenance

Maintenance-free motors and gears, fewer moving parts, and industrial-grade components, means no scheduled maintenance required for our customers. While our competitors average two unscheduled maintenance events per day, we average only one per year.

High Power Density

Higher density means more power and more profit. DuraTrack offers the unique ability to maximize the power density of each site, boasting up to 120 modules per row and higher density than our closest competition.

Failure-free wind management

Nobody can control the weather, but DuraTrack self-manages wind events to power through even the harshest storms.

Fewer Components. Greater Reliability.

Array was founded on a philosophy of engineered simplicity. Minimizing potential failure points. With fewer components than competitors, DuraTrack consistently delivers higher reliability and superior uptime.

ARRAY TECHNOLOGIES FOLLOW THE SUN. FOLLOW THE LEADER.

IEC PTL US CERTIFIED

COST VERSUS VALUE

Value is more than the cost of a tracking system. It's about building with forgiving tolerance and fewer parts so construction crews can work efficiently. It means protecting your investment with a failure-free wind management system. It also includes increasing power density. But most of all, value is measured in operational uptime, or reliability.

THE GLOBAL LEADER IN RELIABILITY

Maintenance-free motors and gears, fewer moving parts, and industrial-grade components, means no scheduled maintenance required for our customers. While our competitors average two unscheduled maintenance events per day, we average only one per year.

ARRAY TECHNOLOGIES, INC.

3901 Midway Place NE
Albuquerque, NM 87109 USA

+1 505.881.7567
+1 855.TRACKPV (872.2578)
+1.505.881.7572

sales@arraytechinc.com
arraytechinc.com

30+ GW YEARS OF OPERATION

NEARLY **200x** FEWER ELECTRICAL COMPONENTS PER 100MWAC THAN DECENTRALIZED TRACKERS

STRUCTURAL & MECHANICAL FEATURES/SPECIFICATIONS

Tracker Type	Horizontal single axis (1 module in portrait)
Ground Cover Ratio (GCR)	Site configurable. Typical: 28-45%
Linked Rows per Drive Motor	Up to 32
Drive Type	Rotating gear drive connected by drivelines (no driveline or bearing lubrication required)
Array Height	Torque Tube Elevation: 54" standard, adjustable (48" min height above grade)
Tracking Range of Motion	+/- 52°
Terrain Flexibility (N-S)	Up to 8.5° standard (up to 15° optional)
Terrain Flexibility (E-W)	Up to 25° combined angle
Wind Protection	Autonomous passive mechanical system No sensors or grid power required to activate
Max Wind Speed	140mph (225 km/h) per ASCE 7-10 (3-second gust), higher wind speeds possible depending on project conditions
Operating Temp Range	Standard: -4°F to 140°F (-20°C to 60°C) Optional: -40°F to 104°F (-40°C to 40°C)
Materials	Pre-galv steel, HDG steel and aluminum structural members, as required.
Codes and Standards	Certified to UL 3703 and IEC 62817

MODULE COMPATIBLITY

c-Si Modules per Row (1500V DC)	Typical: 84-112 Maximum: 120
First Solar Modules per Row (1500V DC)	Series 6 Plus: 84-108 Series 7: 96-114
Modules Supported	Most commercially available, including framed or frameless crystalline, thin film, bifacial, and back rails
Module Attachment	Single fastener, high-speed mounting clamps with integrated grounding. Traditional rails for crystalline in landscape, custom racking for thin film and frameless crystalline and bifacial per manufacturer specs.

CONTROL SYSTEM DETAILS

Baseline Solar Tracking Method	SANDIA's Ephemeris Model
Control Electronics	SmarTrack™ Controller Site Data Controller 6X Motor Controllers
Communications	MODBUS TCP
Backtracking	Yes (Optional terrain adaptive backtracking with SmarTrack)
Diffuse Light Response	Optional with SmarTrack
Night-time Stow	Yes (configurable)
Tracking Accuracy	+/- 2°
Motor Type	2HP, 3 Phase, 480V AC

INSTALLATION, OPERATION, AND MAINTENANCE

Annual Power Consumption (kWh per 1 MW)	Approximately 310 kWh per MW
PE Stamped Structural Calculations & Drawings	Yes
On-site Training and System Commissioning	Yes
Connection	100% bolted connections. No drilling, cutting or welding on-site or in-field fabrication
Scheduled Maintenance	None required
Module Cleaning Compatibility	Robotic, Tractor, Manual
Warranty	10 years structural; 5 years drive and controls components

PROJECT DEVELOPER

CLOUDBREAK ENERGY PARTNERS
WWW.CLOUDBREAKENERGY.COM
CLOUDBREAK ENERGY PARTNERS
(970).580-5652

PREPARED FOR:

ENGINEERING & DESIGN

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RENEWABLE ENERGY ENGINEERING & DESIGN
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+1 949 466 2540
ROGER.DSMZ@RYDBERGPOWER.COM

PRELIMINARY NOT FOR CONSTRUCTION

CO-KRIEGER FORT SOLAR PHOTOVOLTAIC PROJECT
PRELIMINARY PV DESIGN
3.25MWAC/3.903MWDC - 1 3.2KV@POI
SAT TRACKER-1P/BIFACIAL MODULES
NEAR
4557 E VINE DR, FORT COLLINS, CO 80524

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v1.0	PRELIMINARY: ISSUED FOR REVIEW	11/25/2024	PMG	RDSM	

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DRAWN BY: JNM
ENGINEER: –
APPROVED BY: –

SHEET TITLE:

RACKING DATASHEET

SHEET NO.:

D-100

SOLECTRIA® XGI 1500-250 SERIES

PREMIUM 3-PHASE TRANSFORMERLESS UTILITY-SCALE INVERTERS

FEATURES

- NEW and MORE POWERFUL!
  - XGI 1500-250/250-600
  - XGI 1500-225-600 (Selectable: 225kW/225kVA or 225kW/250kVA)
  - XGI 1500-200/200-480
  - XGI 1500-175-480 (Selectable: 175kW/175kVA or 175kW/200kVA)
- Industry-leading maximum DC/AC Ratio of 2.0
- Accepts two input PV Output Circuits, with no overcurrent protection required
- Made in the USA with global components
- Buy American Act (BAA) compliant
- 99.0% peak efficiency
- Flexible solution for distributed and centralized system architecture
- Advanced grid-support functionality Rule 21/UL1741SB
- Robust, dependable and built to last
- Lowest O&M and installation costs
- Access all inverters on site via WiFi from one location
- Remote diagnostics and firmware upgrades
- SunSpec Modbus Certified
- Tested compatible with the TESLA PowerPack Microgrid System

OPTIONS

- PV Source Circuit Combiners
- Web-based monitoring
- Extended warranty

MADE IN THE USA With U.S. and Global Components

Yaskawa Solectria Solar is pleased to introduce its most powerful XGI 1500 inverters, with the XGI 1500-250 models at 600 Vac, and the XGI 1500-200 models for 480 Vac service.

The XGI 1500-250 and XGI 1500-200 feature SiC technology, high power and high efficiency that places them at the top end of the utility-scale string inverters in the market.

Yaskawa Solectria Solar designs all XGI 1500 utility-scale string inverters for high reliability and builds them with the highest quality components -- selected, tested and proven to last beyond their warranty. The XGI 1500 inverters provide advanced grid-support functionality and meet the latest IEEE 1547 and UL 1741 standards for safety.

The XGI 1500 inverters provide ideal solutions for ground-mounted utility-scale PV systems, with models available for service connections at 600 Vac and 480 Vac. Designed and engineered in Lawrence, MA, the SOLECTRIA XGI inverters are assembled and tested at Yaskawa America's facilities in Buffalo Grove, IL. The XGI 1500 inverters are Made in the USA with global components, and are compliant with the Buy American Act.

YASKAWA SOLECTRIA SOLAR

Yaskawa Solectria Solar 1-978-683-9700 | Email: sales@solectria.com | solectria.com
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SOLECTRIA® XGI 1500-250 SERIES TECHNICAL DATA

SPECIFICATIONS

PRODUCT SPECIFICATION		XGI 1500 INVERTER MODEL			
		XGI 1500 250/250-600	XGI 1500 225-600	XGI 1500 200/200-480	XGI 1500 175-480
DC Inpu	Absolute Maximum Input Voltage	1500 VDC			
	Maximum Power Voltage Range (MPPT)	860-1250 VDC		750-1250 VDC	
	Operating Voltage Range (MPPT)	860-1450 VDC		750-1450 VDC	
	Number of MPP Trackers	1 MPPT			
	Maximum Operating Input Current	296.7 A	267 A	237.3 A	207.6 A
	Maximum Operating PV Power	255 kW	230 kW	204 kW	179 kW
	Maximum DC/AC Ratio | Max Rated PV Power	2.0 | 500 kW	2.22 | 500 kW	2.5 | 500 kW	2.86 | 500 kW
	Max Rated PV Short-Circuit Current (∑Isc x 1.25)	800 A			
AC Output	Nominal Output Voltage	600 VAC, 3-Phase		480 VAC, 3-Phase	
	AC Voltage Range	-12% to +10%			
	Continuous Real Output Power	250 kW	225 kW	200 kW	175 kW
	Continuous Apparent Output Power (kVA)	250	250 / 225	200	200 / 175
	Maximum Output Current (A_{RMS})	240.6	XGI 1500-225/225: 216.5 225/250: 240.6	240.6	XGI 1500-175/175: 210.5 175/200: 240.6
	Fault Current Contribution (1 cycle RMS)	390 A	390 A / 351 A	312 A	312 A / 273 A
	Conductor Compatibility	600 kcmil max, Cu or Alum, 1 or 2 conductors with lugs			
	Nominal Output Frequency	60 Hz			
	Power Factor (Unity default)	+/- 0.80 Adjustable			
	Total Harmonic Distortion (THD) @ Rated Load	< 5%			
	Grid Connection Type	3-Ph + N/GND			
Efficiency	Peak Efficiency	99.0%			
	CEC Average Efficiency	98.5%			
	Tare Loss	<1 W			
Temperature	Ambient Temperature Range	-40°F to 140°F (-40°C to 60°C)			
	De-Rating Temperature	113°F (45°C)	127°F (53°C)	113°F (45°C)	131°F (55°C)
	Storage Temperature Range	-40°F to 167°F (-40°C to 75°C)			
	Relative Humidity (non-condensing)	0 - 95%			
	Operating Altitude	9,840 ft (3 km)			
Communications	Advanced Graphical User Interface	WiFi			
	Communication Interface	Ethernet			
	Third-Party Monitoring Protocol	SunSpec Modbus TCP/IP			
	Web-Based Monitoring	Optional			
	Firmware Updates	Remote and Local			
Testing & Certifications	Safety Listings & Certifications	UL 1741, IEEE 1547, UL 1998			
	Advanced Grid Support Functionality	Rule 21, UL 1741SB			
	Testing Agency	ETL			
	FCC Compliance	FCC Part 15 (Subpart B, Class A)			
Warranty	Standard and Options	5 Years Standard; Option for 10 Years			
Enclosure	Acoustic Noise Rating	73 dBA @ 1 m ; 67dBA @ 3 m			
	DC Disconnect	Integrated 2-Pole 400 A DC Disconnect			
	Mounting Angle	Vertical only			
	Dimensions	Height: 29.5 in. (750 mm) | Width: 44.3 in. (1125 mm) | Depth: 15.4 in. (390 mm)			
	Weight	290 lbs (131.5 kg)			
	Enclosure Rating and Finish	NEMA 4X, IEC IP66, Type 3R, Polyester Powder-Coated Aluminum			

ETL LISTED

IT'S PERSONAL

YASKAWA SOLECTRIA SOLAR

Yaskawa Solectria Solar 1-978-683-9700 | Email: sales@solectria.com | solectria.com
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INVERTER DATASHEET

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D-200

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Hi-MO 5

LR5-72HBD
520~545M

- Based on M10-182mm wafer, best choice for ultra-large power plants
- Advanced module technology delivers superior module efficiency
  - M10 Gallium-doped Wafer • Smart Soldering • 9-busbar Half-cut Cell
- Globally validated bifacial energy yield
- High module quality ensures long-term reliability

12 — 12-year Warranty for Materials and Processing

30 — 30-year Warranty for Extra Linear Power Output

Complete System and Product Certifications

IEC 61215, IEC 61730, UL 61730
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

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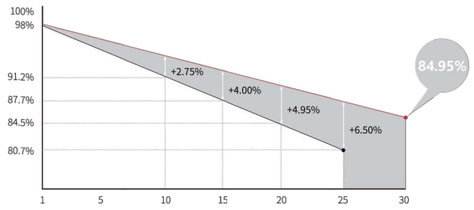
Hi-MO 5

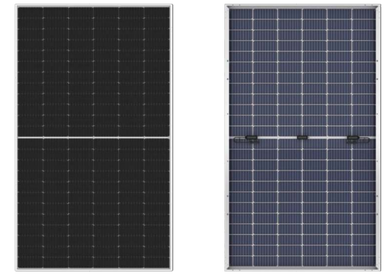
LR5-72HBD 520~545M

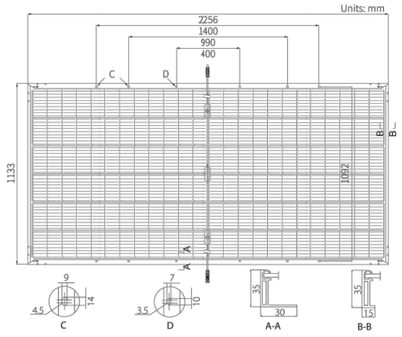
21.3%	0~+5W	<2%	0.45%	HALF-CELL
MAX MODULE EFFICIENCY	POWER TOLERANCE	FIRST YEAR POWER DEGRADATION	YEAR 2-30 POWER DEGRADATION	Lower operating temperature

Additional Value

30-Year Power Warranty







Mechanical Parameters

Cell Orientation	144 (6×24)
Junction Box	IP68, three diodes
Output Cable	4mm², positive 400 / negative 200mm length can be customized
Glass	Dual glass, 2.0mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	32.3kg
Dimension	2256×1133×35mm
Packaging	31pcs per pallet / 155pcs per 20' GP / 558pcs per 40' HC

Electrical Characteristics

STC : AM1.5 1000W/m² 25°C — Test uncertainty for Pmax: ±3%

Power Class	520	525	530	535	540	545
Maximum Power (Pmax/W)	520	525	530	535	540	545
Open Circuit Voltage (Voc/V)	48.90	49.05	49.20	49.35	49.50	49.65
Short Circuit Current (Isc/A)	13.57	13.65	13.71	13.78	13.85	13.92
Voltage at Maximum Power (Vmp/V)	41.05	41.20	41.35	41.50	41.65	41.80
Current at Maximum Power (Imp/A)	12.67	12.75	12.82	12.90	12.97	13.04
Module Efficiency(%)	20.3	20.5	20.7	20.9	21.1	21.3

Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0 ~ +5 W
Voc and Isc Tolerance	±3%
Maximum System Voltage	DC1500V (IEC/UL)
Maximum Series Fuse Rating	30A
Nominal Operating Cell Temperature	45±2°C
Protection Class	Class II
Fire Rating	UL type 29
Bifaciality	70±5%

Mechanical Loading

Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

Temperature Ratings (STC)

Temperature Coefficient of Isc	+0.050%/°C
Temperature Coefficient of Voc	-0.284%/°C
Temperature Coefficient of Pmax	-0.350%/°C

LONGi

Floor 19, Lujiazui Financial Plaza, Century Avenue 826, Pudong Shanghai, China
Tel: +86-21-80162606
Web: en.longi-solar.com

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