

Valley County Planning & Zoning Department

219 N. Main
PO Box 1350
Cascade, ID 83611
www.co.valley.id.us
Phone 208-382-7115
Fax 208-382-7119



Conditional Use Permit Application

TO BE COMPLETED BY THE PLANNING AND ZONING DEPARTMENT

FILE # C.U.P. 22-02

ACCEPTED BY _____

CROSS REFERENCE FILE(S): _____

PROPOSED USE: solar panels

☒ Check # 1375 or ☐ Cash

FEE \$ 300.00

DEPOSIT \$ _____

DATE 1-20-2022

When an application has been submitted, it will be reviewed in order to determine compliance with application requirements.
A hearing date will be scheduled only after an application has been accepted as complete or if applicant requests the hearing in writing.

Applicant's Signature: David G. Carlisle Date: 12/8/2021

The following must be completed and submitted with the conditional use permit application:

- ❖ A detailed project description disclosing the purpose, strategy, and time frame of construction. Include a phasing plan if appropriate.
- ❖ A plot plan, drawn to scale, showing the boundaries, dimensions, area of lot, existing and proposed utilities, streets, easements, parking, setbacks, and buildings.
- ❖ A landscaping plan, drawn to scale, showing elements such as trees, shrubs, ground covers, and vines. Include a plant list indicating the size, quantity, location and name (both botanical and common) of all plant material to be used.
- ❖ A site grading plan clearly showing the existing site topography and detailing the best management practices for surface water management, siltation, sedimentation, and blowing of dirt and debris caused by grading, excavation, open cuts, side slopes, and other site preparation and development.
- ❖ A lighting plan.
- ❖ Names and addresses of property owners within 300 feet of the property lines. Information can be obtained through the Assessor's Office. Only one copy of this list is required.
- ❖ Ten (10) copies of the application, project description, plot plan, landscaping plan, grading plan, and impact report are required.

We recommend you review the Valley County Codes online at www.co.valley.id.us/planning-zoning or at the Planning & Zoning Office at 219 North Main Street, Cascade, Idaho

Subject to Idaho Statute 55-22 Underground Facilities Damage Prevention.

APPLICANT Elite Enterprise Group PHONE [REDACTED]
Owner ☒ Purchaser ☐ Lessee ☐ Renter ☐
APPLICANT'S MAILING ADDRESS 15256 Locust Lane Nampa ZIP 83686
OWNER'S NAME David Carlisle
OWNER'S MAILING ADDRESS 64 Circle View Lane McCall ID 83638 ZIP 83638
AGENT/REPRESENTATIVE Paul Silvis FAX PHONE [REDACTED]
AGENT/REPRESENTATIVE ADDRESS 15256 Locust Lane Nampa ID ZIP 83686
CONTACT PERSON (if different from above)
CONTACT'S ADDRESS ZIP PHONE

ADDRESS OF SUBJECT PROPERTY 64 Circle View Lane McCall ID 83638
PROPERTY DESCRIPTION (either lot, block & subdivision name or attach a recorded deed with a metes and bounds description.)
Partial rp002970000090
Mountain View Estate lot 9

TAX PARCEL NUMBER

Quarter Section Township Range

1. PROPOSED USE: Residential ☒ Civic or Community ☐ Commercial ☐ Industrial ☐

2. SIZE OF PROPERTY 2.5 Acres ☒ or Square Feet ☐

3. EXISTING LAND USES AND STRUCTURES ON THE PROPERTY ARE AS FOLLOWS:

House & Garage

* Solar Power Array added to property *

4. ARE THERE ANY KNOWN HAZARDS ON OR NEAR THE PROPERTY (such as canals, hazardous material spills, soil or water contamination)? If so, describe and give location: No

5. ADJACENT PROPERTIES HAVE THE FOLLOWING BUILDING TYPES AND/OR USES:

North Residential

South Residential

East Residential

West Residential

6. MAXIMUM PROPOSED STRUCTURE HEIGHT: 11ft

7a. NON-RESIDENTIAL STRUCTURES OR ADDITIONS (If applicable):

Number of Proposed Structures: Number of Existing Structures: 1

Proposed Gross Square Feet Existing Gross Square Feet

1st Floor 1st Floor

2nd Floor 2nd Floor

Total Total 1200 sq ft Solar Array

- 8a. TYPE OF RESIDENTIAL USE (If applicable):
Single family residence ☒ Mobile home for single family residence ☐ Multiple residences on one parcel ☐
- 8b. SQUARE FOOTAGE OF PROPOSED RESIDENTIAL STRUCTURES (If applicable): N/A
SQUARE FOOTAGE OF EXISTING RESIDENTIAL STRUCTURES: 2129
- 8c. DENSITY OF DWELLING UNITS PER ACRE: N/A
9. SITE DESIGN:
Percentage of site devoted to building coverage: N/A
Percentage of site devoted to landscaping: N/A
Percentage of site devoted to roads or driveways: N/A
Percentage of site devoted to other uses: N/A, describe:
Total: **100%**
10. PARKING (If applicable): Office Use Only
a. Handicapped spaces proposed: N/A Handicapped spaces required: _____
b. Parking spaces proposed: N/A Parking spaces required: _____
c. Number of compact spaces proposed: N/A Number of compact spaces allowed: _____
d. Restricted parking spaces proposed: N/A
e. Are you proposing off-site parking: N/A
11. SETBACKS:
- | | <u>BUILDING</u> | <u>Office Use Only</u> | <u>PARKING</u> | <u>Office Use Only</u> |
|-------------|-----------------|------------------------|----------------|------------------------|
| | Proposed | Required | Proposed | Required |
| Front | <u>N/A</u> | _____ | _____ | _____ |
| Rear | <u>N/A</u> | _____ | _____ | _____ |
| Side | <u>N/A</u> | _____ | _____ | _____ |
| Street Side | <u>N/A</u> | _____ | _____ | _____ |
- 12a. NUMBER OF EXISTING ROADS: N/A Width: _____ Private or Public? _____
Are the existing road surfaces paved or graveled? _____
- 12b. NUMBER OF PROPOSED ROADS: N/A Proposed width: _____
Will the proposed roads be publicly or privately maintained? _____
Proposed road construction: Gravel ☐ Paved ☐
- 13a. EXISTING UTILITIES ON THE PROPERTY ARE AS FOLLOWS:
WELL
- 13b. PROPOSED UTILITIES: N/A
Proposed utility easement width _____ Location _____
- 14a. SEWAGE WASTE DISPOSAL METHOD: Septic ☒ Central Sewage Treatment Facility ☐
- 14b. POTABLE WATER SOURCE: N/A Public ☐ Water Association ☐ Individual ☐
If individual, has a test well been drilled? N/A Depth _____ Flow _____ Purity Verified? _____
Nearest adjacent well _____ Depth _____ Flow _____

15. ARE THERE ANY EXISTING IRRIGATION SYSTEMS? N/A
Are you proposing any alterations, improvements, extensions or new construction? _____
If yes, Explain: _____

16. DRAINAGE (Proposed method of on-site retention): N/A
Any special drains? _____ (Please attach map)
Soil type (Information can be obtained from the Soil Conservation District): _____
- 17a. IS ANY PORTION OF THE PROPERTY LOCATED IN A FLOODWAY OR 100-YR FLOODPLAIN?
(Information can be obtained from the Planning & Zoning Office) N/A
- 17b. DOES ANY PORTION OF THIS PARCEL HAVE SLOPES IN EXCESS OF 15%? N/A
- 17c. ARE THERE WETLANDS LOCATED ON ANY PORTION OF THE PROPERTY? N/A
18. IS THERE ANY SITE GRADING OR PREPARATION PROPOSED? N/A If yes, Explain:

19. COMPLETE ATTACHED PLAN FOR IRRIGATION if you have water rights and are in an irrigation district.
20. COMPLETE ATTACHED WEED CONTROL AGREEMENT
21. COMPLETE ATTACHED IMPACT REPORT. It must address potential environmental, economic, and social impacts and how these impacts are to be minimized.



VALLEY COUNTY PLANNING & ZONING DEPARTMENT

219 North Main Street
PO Box 1350
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Phone 208-382-7115
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APPLICATION FOR IRRIGATION PLAN APPROVAL

submitted with C.U.P. & Subdivision Applications
(Idaho Code 31-3805)

Applicant(s): N/A
N/A

Mailing Address _____ City, State _____ Zip _____

Location of Subject Property: N/A
(Property Address or Two Nearest Cross Streets)

Assessor's Account Number(s): RP N/A Section _____ Township _____ Range _____

C.U.P Number: N/A

This land: ☐ Has water rights available to it
☐ Is dry and has no water rights available to it. If dry, please sign this document and return to the Planning & Zoning Department as part of your application.

Idaho Code 31-3805 states that when all or part of a subdivision is "located within the boundaries of an existing irrigation district or canal company, ditch association, or like irrigation water deliver entity ... no subdivision plat or amendment to a subdivision plat or any other plat or map recognized by the city or county for the division of land will be accepted, approved, and recorded unless:"

- A. The appropriate water rights and assessment of those water rights have been transferred from said lands or excluded from an irrigation entity by the owner; or
- B. The owner filing the subdivision plat or amendment to a subdivision plat or map has provided for the division of land of underground tile or conduit for lots of one acre or less or a suitable system for lots of more than one acre which will deliver water to those land owners within the subdivision who are also within the irrigation entity with the appropriate approvals:
 1. For proposed subdivisions located within an area of city impact, both city and county zoning authorities must approve such irrigation system in accordance with 50-the irrigation system.
 2. For proposed subdivisions outside of negotiated areas of city impact, the delivery system must be approved by the Planning and Zoning Commission and the Board of County Commissioners with the advice of the irrigation entity charged with the delivery of water to said lands.

To better understand your irrigation request, we need to ask you a few questions. A list of the map requirements follows the short questionnaire. Any missing information may result in the delay of your request before the Planning and Zoning Commission and ultimately the approval of your irrigation plan by the Board of County Commissioners as part of final plat approval.

N/A

1. Are you within an area of negotiated City Impact? _____ Yes _____ No

2. What is the name of the irrigation and drainage entities servicing the property?

Irrigation: _____ N/A

Drainage: _____ N/A

3. How many acres is the property being subdivided? _____ N/A

4. What percentage of this property has water? _____ N/A

5. How many inches of water are available to the property? _____ N/A

6. How is the land currently irrigated? ☐ surface ☐ sprinkler ☐ irrigation well
☐ above ground pipe ☐ underground pipe

7. How is the land to be irrigated after it is subdivided?

☐ surface ☐ sprinkler ☐ irrigation well
☐ above ground pipe ☐ underground pipe

8. Please describe how the head gate/pump connects to the canal and irrigated land and where ditches &/or pipes go.

N/A

9. Is there an irrigation easement(s) on the property? ☐ Yes ☐ No N/A

10. How do you plan to retain storm and excess water on each lot? _____ N/A

11. How do you plan to process this storm water and/or excess irrigation water prior to it entering the established drainage system? (i.e. oil, grease, contaminated aggregates) _____ N/A

Irrigation Plan Map Requirements N/A

The irrigation plan **must be on a scalable map** and show all of the irrigation system including all supply and drainage structures and easements. Please include the following information on your map:

- ☐ All canals, ditches, and laterals with their respective names.
- ☐ Head gate location and/or point of delivery of water to the property by the irrigation entity.
- ☐ Pipe location and sizes, if any
- ☐ Rise locations and types, if any.
- ☐ Easements of all private ditches that supply adjacent properties (i.e. supply ditches and drainage ways).
- ☐ Slope of the property in various locations.
- ☐ Direction of water flow (use short arrows on your map to indicate water flow direction →).
- ☐ Direction of wastewater flow (use long arrows on your map to indicate waste water direction —————→).
- ☐ Location of drainage ponds or swales, if any where wastewater will be retained on property
- ☐ Other information: _____

Also, provide the following documentation: N/A

- ☐ Legal description of the property.
- ☐ Proof of ownership.
- ☐ A written response from the irrigation entity and/or proof of agency notification.
- ☐ Copy of any water users' association agreement currently in effect which shows water schedules and maintenance responsibilities.
- ☐ Copy of all new easements ready for recording (irrigation supply and drainage).
- ☐ If you are in a city area of impact, please include a copy of the approvals by the city planning and zoning commission and city council of your irrigation plan.

=====Applicant Acknowledgement=====

I, the undersigned, agree that prior to the Planning and Zoning Department accepting this application, I am responsible to have all the required information and site plans.

I further acknowledge that the irrigation system, as approved by the Planning and Zoning Commission and ultimately the Board of County Commissioners, must be **bonded** and/or **installed** prior to the recording of the plat or building permit.

Signed: _____
Applicant / Property Owner

Date: ____/____/____
(Application Submitted)



VALLEY COUNTY

WEED CONTROL AGREEMENT

The purpose of this agreement is to establish a cooperative relationship between Valley County and the undersigned Cooperator to protect the natural and economic values in the Upper Payette River watershed from damages related to the invasion and expansion of infestations of noxious weeds and invasive plants. This is a cooperative effort to prevent, eradicate, contain and control noxious weeds and invasive plants on public and private lands in this area. Factors related to the spread of weeds are not related to ownership nor controllable at agency boundaries. This agreement formalizes the cooperative strategy for management of these weeds addressed in Valley County's Integrated Weed Management Plan.

In this continuing effort to control Noxious Weeds, Valley County Weed Control will consult with the undersigned Cooperator and outline weed identification techniques, present optional control methods and recommend proper land management practices.

The undersigned Cooperator acknowledges that he/she is aware of any potential or real noxious weed problems on his/her private property and agrees to control said weeds in a timely manner using proper land management principles.

COOPERATOR

By: David Carlisle

By: _____
Valley County Weed Control

Date: 2/7/2022

Date: _____

IMPACT REPORT (from Valley County Code 9-5-3-D)

You may add information to the blanks below or attach additional sheets.

- ❖ An impact report shall be required for all proposed Conditional Uses.
- ❖ The impact report shall address potential environmental, economic, and social impacts and how these impacts are to be minimized as follows:
 1. Traffic volume, character, and patterns including adequacy of existing or proposed street width, surfacing, alignment, gradient, and traffic control features or devices, and maintenance. Contrast existing with the changes the proposal will bring during construction and after completion, build-out, or full occupancy of the proposed development. Include pedestrian, bicycle, auto, and truck traffic.
N/A
 2. Provision for the mitigation of impacts on housing affordability.
N/A

 3. Noise and vibration levels that exist and compare to those that will be added during construction, normal activities, and special activities. Include indoor and outdoor, day and night variations.
N/A
 4. Heat and glare that exist and that might be introduced from all possible sources such as autos in parking areas, outdoor lights, water or glass surfaces, buildings or outdoor activities.
N/A
 5. Particulate emissions to the air including smoke, dust, chemicals, gasses, or fumes, etc., both existing and what may be added by the proposed uses.
N/A

6. Water demand, discharge, supply source, and disposal method for potable uses, domestic uses, and fire protection. Identify existing surface water drainage, wet lands, flood prone areas and potential changes. Identify existing ground water and surface water quality and potential changes due to this proposal. N/A

7. Fire, explosion, and other hazards existing and proposed. Identify how activities on neighboring property may affect the proposed use. N/A

8. Removal of existing vegetation or effects thereon including disturbance of wet lands, general stability of soils, slopes, and embankments and the potential for sedimentation of disturbed soils. N/A

9. ~~Include practices that will be used to stabilize soils and restore or replace vegetation.~~ N/A

10. Soil characteristics and potential problems in regard to slope stability, embankments, building foundation, utility and road construction. Include suitability for supporting proposed landscaping. N/A

11. Site grading or improvements including cuts and fills, drainage courses and impoundments, sound and sight buffers, landscaping, fencing, utilities, and open areas. N/A

12. Visibility from public roads, adjoining property, and buildings. Include what will be done to reduce visibility of all parts of the proposal but especially cuts and fills and buildings. Include the affect of shadows from new features on neighboring property.

Array is setback approx. 15ft from property fence, fence is approx. 10ft from the public road, no glare from the solar panels as it is south facing, the sun should never hit it from the North to produce glare.

13. Reasons for selecting the particular location including topographic, geographic and similar features, historic, adjoining land ownership or use, access to public lands, recreation, utilities, streets, etc., in order to illustrate compatibility with and opportunities presented by existing land uses or character.

Location selection for best solar production, set where it is to avoid homeowners septic and trees

14. Approximation of increased revenue from change in property tax assessment, new jobs available to local residents, and increased local expenditures.

Per the Green Energy Act, property value will increase (not able to determine due to changes from when and who it is sold to/by), but no increase will be seen to property taxes.

15. Approximation of costs for additional public services, facilities, and other economic impacts.

N/A

16. State how the proposed development will impact existing developments providing the same or similar products or services.

N/A

17. State what natural resources or materials are available at or near the site that will be used in a process to produce a product and the impacts resulting from the depletion of the resource. Describe the process in detail and describe the impacts of each part.

N/A

18. What will be the impacts of a project abandoned at partial completion?
N/A

19. Number of residential dwelling units, other buildings and building sites, and square footage or gross non-residential floor space to be available.
N/A

20. Stages of development in geographic terms and proposed construction time schedule.
N/A

21. Anticipated range of sale, lease or rental prices for dwelling units, building or other site, or non-residential floor space in order to insure compatibility with adjacent land use and development.
N/A

New and expanding business may qualify for a property tax exemption for up to 5 years by meeting the qualifications In accordance with Idaho Code§ 63-602NN

Protocols for qualifying property exemption in Valley County, Idaho

Application must be received prior to the start of construction (ex. Building Permits, excavation)
Term of exemption, not to exceed 5 years, will be up to the discretion of the Valley County Board of Commissioners

- ❖ Retail sales business do not qualify
- ❖ Multi use may qualify excluding retail sale area
- ❖ Housing
 - Multi-family housing must have 5 units or more per structure.
 - ◆ For local housing only (workforce)
 - Multi-Family housing: units may qualify if more than one structure is built totaling 5 or more units.
 - ◆ Vacation/short term rentals not allowed
 - ◆ Units cannot be individually sold (Example: Condominiums)

Remodel and/or additions to existing Businesses

- ❖ Only the area of remodel/addition may qualify for exemption
- ❖ Retail sales additions/remodel will not qualify

Application must be filed with the Valley County Assessor's office before construction begins.

For further information regarding the 63-602NN application process and instructions please visit the Valley County Assessor's office. (208-382-7126)

DAVID CARLISLE - 12.000kW DC, 7.600kW AC, STORAGE SIZE - 9KWH

SITE PLAN-1

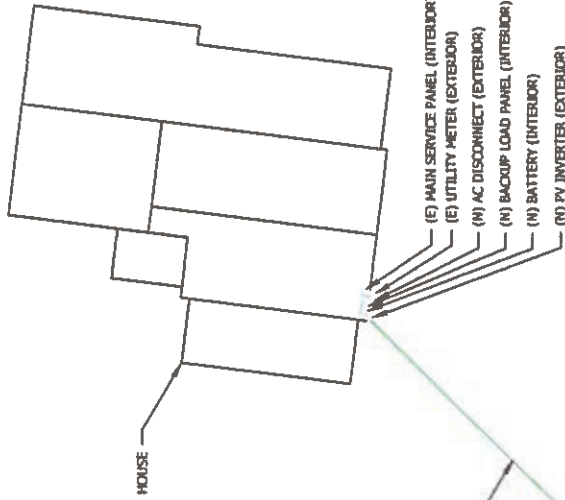


SYSTEM INFORMATION

DC SYSTEM SIZE: 12000W
AC SYSTEM SIZE: 7600W
MODULES:
(30) JINKO SOLAR JKH400H-72HL-V
INVERTER:
(1) GENERAC PWR CELL X7602(240V, 1PH)
BATTERY:
(1) GENERAC PWR CELL 3.0KWH DCB,
3 MODULES BATTERY 9KWH, 4.5KW.

ENGINEER OF RECORD

A1 VICINITY MAP
PV-1.0 SCALE: NTS



GENERAL INFORMATION	
ELECTRIC CODE	NEC 2017
FIRE CODE	IFC 2018
RESIDENTIAL CODE	IRC 2018
BUILDING CODE	IRC 2018
WIND SPEED	103 MPH
SNOW LOAD	27 PSF
HIGH TEMP	29°C
LOW TEMP	-26°C

INDEX	
INDEX NO.	DESCRIPTION
PV-1.0	SITE PLAN-1
PV-1.1	SITE PLAN-2
PV-2.0	GENERAL NOTES
PV-3.0	MOUNTING DETAILS
PV-3.1	STRUCTURAL DETAILS
PV-4.0	SINGLE LINE DIAGRAM
PV-4.1	ELECTRICAL CALCULATION
PV-5.0	WARNING PLACARDS
SS	SPEC SHEET(S)



A SITE PLAN-1
PV-1.0 SCALE: 1"=20'-0"



Elite Enterprises Group
15256 LOCUST LANE, NAWA, ID 83686
208-477-4593
LIC:ND:GC#PCE-48499

CUSTOMER INFORMATION

NAMES/ADDRESS:
DAVID CARLISLE
64 CIRCLE VIEW LANE, MCCALL, ID 83638.
44°49'29.75"N 116° 3'38.18"W
APN:R90-029-700-000-90

APN:ID-COUNTY VALLEY

PROJECT NUMBER:EEGL-003650

SITE PLAN-1

DESIGNER/CHECKED BY:
GK/LS

SCALE:AS NOTED PAPER SIZE:17"x11"

DATE:11/3/21 REV:A PV-1.0

DAVID CARLISLE - 12.000kW DC, 7.600kW AC, STORAGE SIZE - 9kWH

SITE PLAN-2



SYSTEM INFORMATION

DC SYSTEM SIZE: 12000W
AC SYSTEM SIZE: 7600W
MODULES:
(30) JINKO SOLAR JKM400M-72HL-V
INVERTER:
(1) GENERAC PWR CELL X7602(240V, 1PH)
BATTERY:
(1) GENERAC PWR CELL 3.0KWH DCB,
3 MODULES BATTERY 9KWH 4.5KW

ENGINEER OF RECORD



Elite Renewable Group
15256 LOCUST LANE, NAPA, ID 83686
208-477-4593
LIC: NO: GC #PCE-48499

CUSTOMER INFORMATION

NAME/ADDRESS:
DAVID CARLISLE
64 CIRCLE VIEW LANE, MCCALL, ID 83638.
44°49'29.75"N 116° 3'38.18"W
APN: RPD-029-700-000-90
AU: ID-COUNTY VALLEY

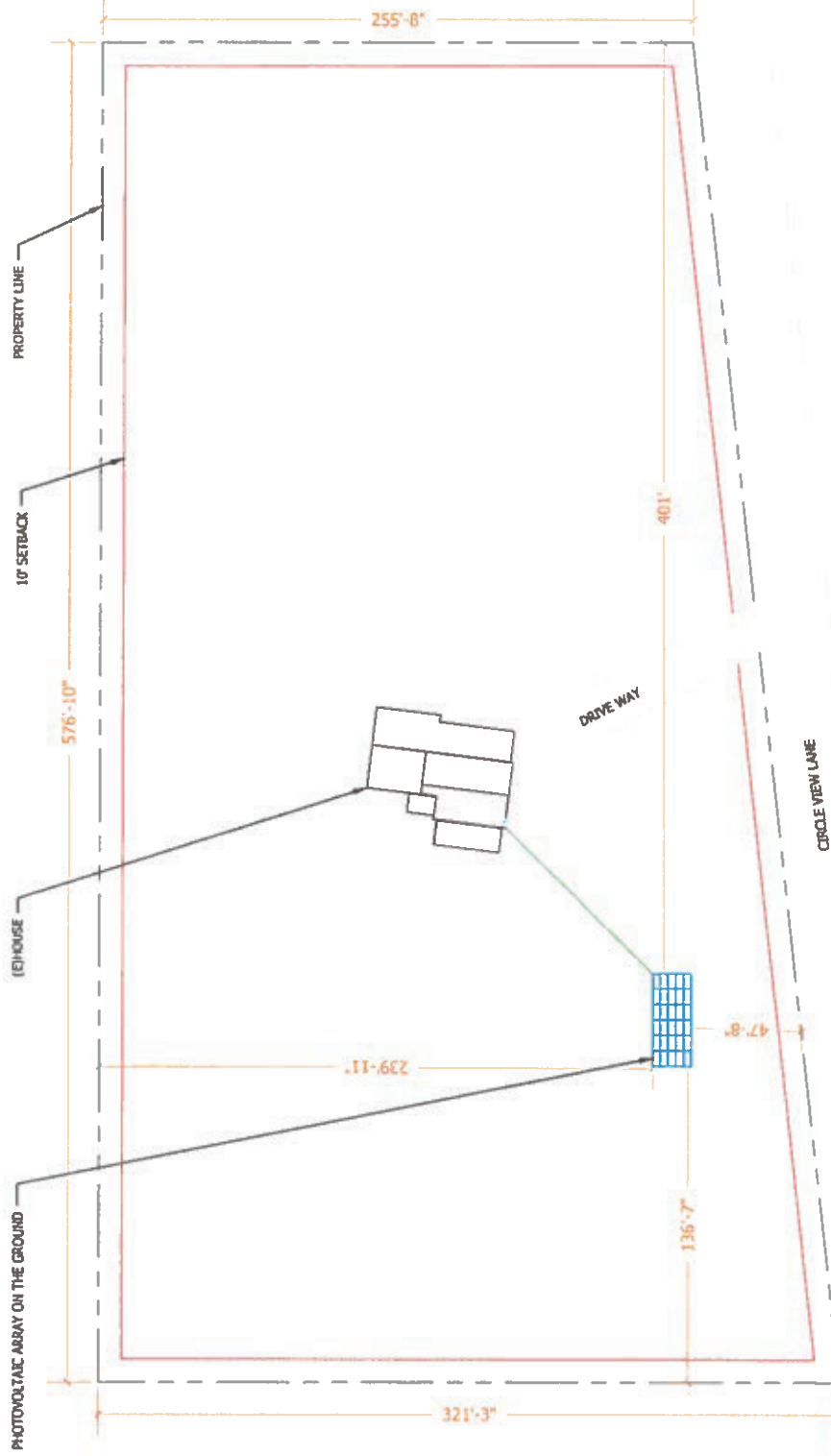
PROJECT NUMBER: EEG-003650

SITE PLAN-2

DESIGNED/CHECKED BY:
GK/LS

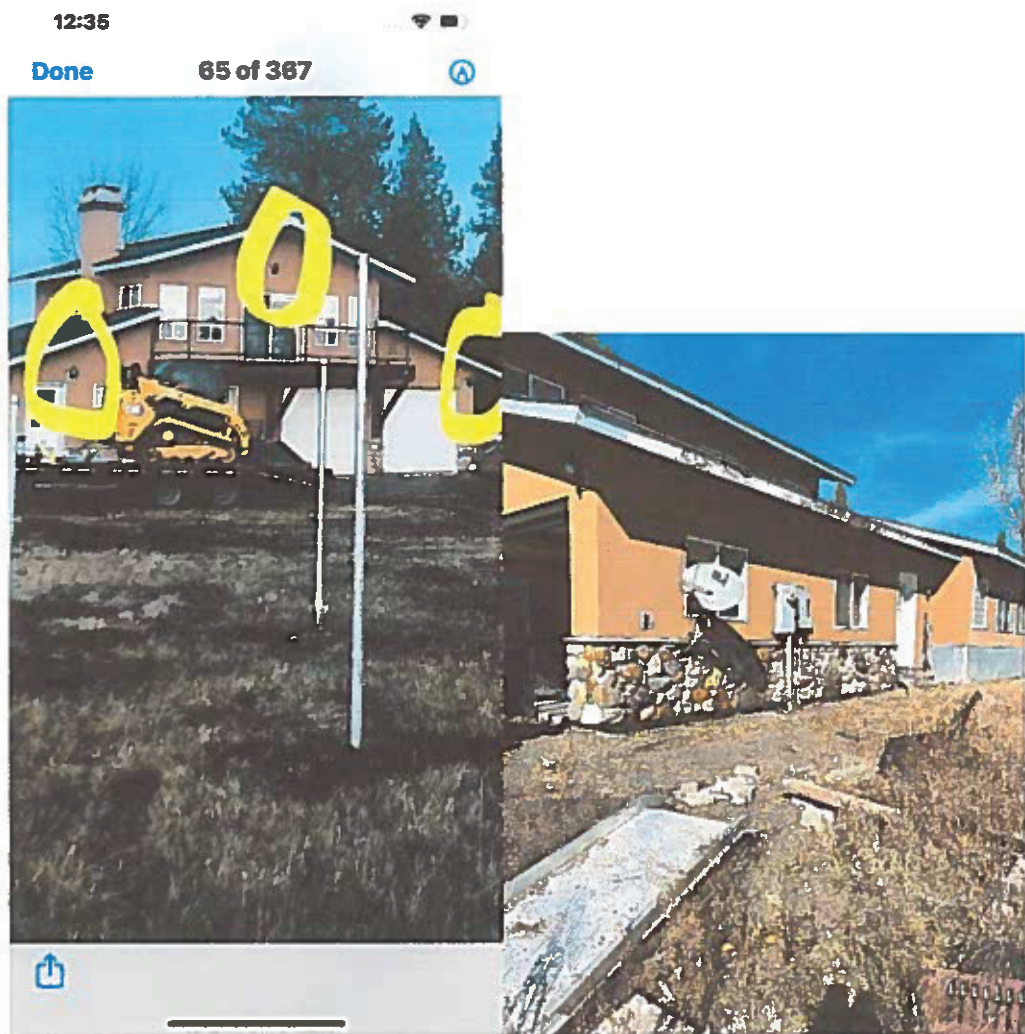
SCALE: AS NOTED PAPER SIZE: 17"x11"

DATE: 11/17/21 REV: A PV-1.1



A SITE PLAN-2

SCALE: 1"=50'-0"



Lighting Plan:

The only lights on the homeowner's property are the ones on his home; please see above photos. There are no other structures which have exterior lights.

The solar array will contain no lighting components.

From: Jess Brewer [REDACTED]
Sent: Monday, February 7, 2022 12:55 PM
To: David Carlisle [REDACTED]; Dusty Simpson [REDACTED]
Cynda Herrick <cherrick@co.valley.id.us>
Subject: RE: pic of array

Hello,

Please see the attached documents and pictures as requested for the Conditional Use Permit for the below Customer Address. If there is anything further needed before the hearing please let us know. Thank you.

David Carlisle
64 Circle View lane
McCall, ID 83638

For photos: one is with the sun up. one is with the exterior lights on at the house hours after the sun has gone down. One is with no light hours after the sun has gone down. All from approximately the same place [used an old fence post and the road, house as my locators].

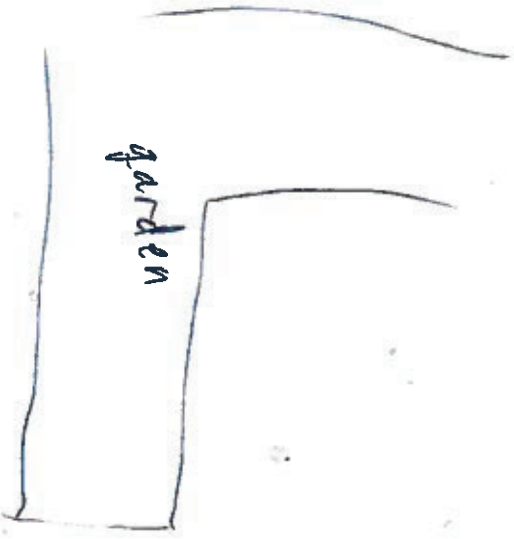
Thank you,
Jessica Brewer
[REDACTED]

www.EliteSolarGroup.com

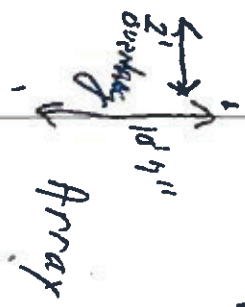
Ask me about our referral program!

Elite Enterprise Group, LLC.
15256 Locust Lane
Nampa, Idaho 83686

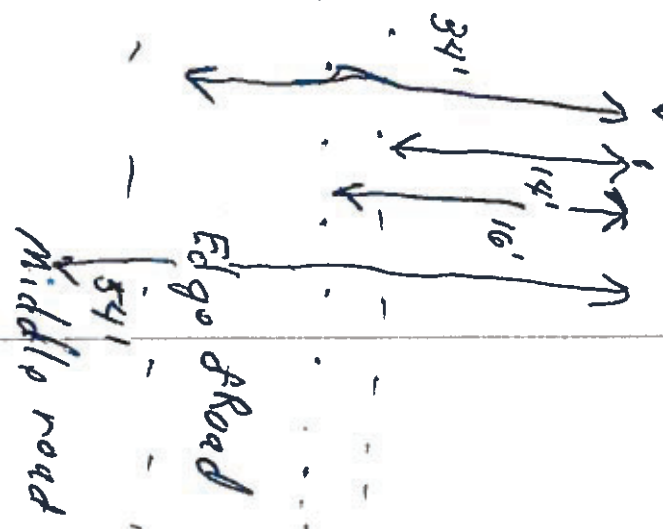
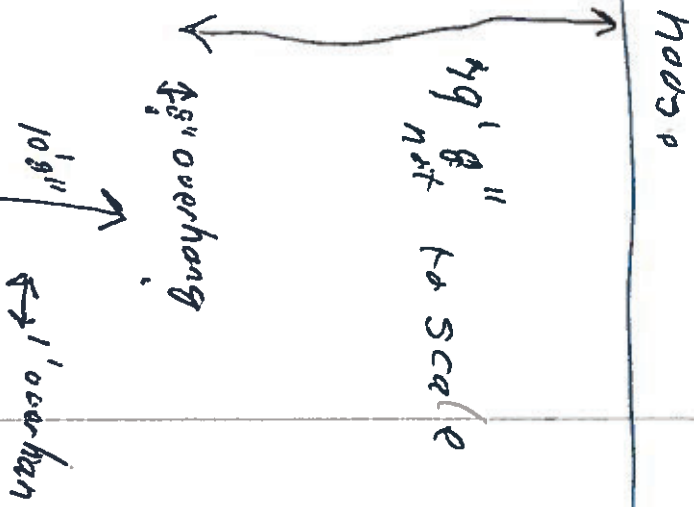




Approximate Property Line
Yinal Pet Area



3' overhang



Edgo Road
Middle road

SYSTEM INFORMATION

DC SYSTEM SIZE: 12000W
AC SYSTEM SIZE: 7600W
MODULES:
(30)JINKO SOLAR 304400M-72HL-V
INVERTER:
(1)GENERAC PWR CELL X7602(240V,1PH)
BATTERY:
(1) GENERAC PWR CELL 3.0KWH DCB,
3 MODULES BATTERY 9KWH, 4.5KW.

ENGINEER OF RECORD

Black Diamond Electric
1516 N 27th St, Boise, ID 83702
047594

CUSTOMER INFORMATION

NAME&ADDRESS:
DAVID CARLISLE
64 CIRCLE VIEW LANE, MCCALL, ID 83638.
44°49'29.75"N 116° 3'38.18"W
APH:RP0-029-700-000-90
AHJ:ID-COUNTY VALLEY

PROJECT NUMBER:EEGL-003650

MODULE SPECSHEET

DESIGNER/CHECKED BY:

SCALE: AS NOTED	PAPER SIZE: 17x11"	
DATE: 11/3/21	REV: A	PV-6.0

MECHANICAL CHARACTERISTICS

Cells	None (PEC Diamond) [C1154.91.150k Types]
No. of Heat Cycles	16 (4, 6, 12)
Densitizations	2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 2681, 2682, 2683, 2684, 2685, 2686, 2687, 2688, 2689, 2690, 2691, 2692, 2693, 2694, 2695, 2696, 2697, 2698, 2699, 2700, 2701, 2702, 2703, 2704, 2705, 2706, 2707, 2708, 2709, 2710, 2711, 2712, 2713, 2714, 2715, 2716, 2717, 2718, 2719, 2720, 2721, 2722, 2723, 2724, 2725, 2726, 2727, 2728, 2729, 2730, 2731, 2732, 2733, 2734, 2735, 2736, 2737, 2738, 2739, 2740, 2741, 2742, 2743, 2744, 2745, 2746, 2747, 2748, 2749, 2750, 2751, 2752, 2753, 2754, 2755, 2756, 2757, 2758, 2759, 2760, 2761, 2762, 2763, 2764, 2765, 2766, 2767, 2768, 2769, 2770, 2771, 2772, 2773, 2774, 2775, 2776, 2777, 2778, 2779, 2780, 2781, 2782, 2783, 2784, 2785, 2786, 2787, 2788, 2789, 2790, 2791, 2792, 2793, 2794, 2795, 2796, 2797, 2798, 2799, 2800, 2801, 2802, 2803, 2804, 2805, 2806, 2807, 2808, 2809, 2810, 2811, 2812, 2813, 2814, 2815, 2816, 2817, 2818, 2819, 2820, 2821, 2822, 2823, 2824, 2825, 2826, 2827, 2828, 2829, 2830, 2831, 2832, 2833, 2834, 2835, 2836, 2837, 2838, 2839, 2840, 2841, 2842, 2843, 2844, 2845, 2846, 2847, 2848, 2849, 2850, 2851, 2852, 2853, 2854, 2855, 2856, 2857, 2858, 2859, 2860, 2861, 2862, 2863, 2864, 2865, 2866, 2867,

TEMPERATURE CHARACTERISTICS

Temperature Coefficients of P ₀ at	-0.35%/°C
Temperature Coefficients of P ₁ at	0.35%/°C
Temperature Coefficients of P ₂ at	0.45%/°C
Maximum Operating Coil Temperature (MCT)	455°C

MAXIMUM RATINGS

Quantum Transport Study at T=0

Maintaining System Volume

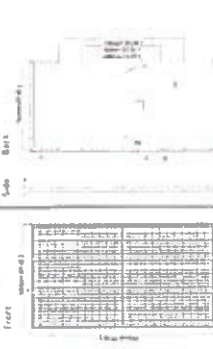
Temperature: 0 K and 10 K

Pressure: 0.1 MPa and 1 MPa

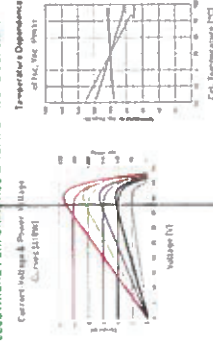
PACKAGING CONFIGURATION

(Two packets a Day \$2.45)
27 packets a Day \$6.45 per month C-6024000

ENGINEERING DRAWINGS



ELECTRICAL PERFORMANCE & TEMPERATURE DEPENDENCE



ELECTRICAL CHARACTERISTICS

Module Type	20 to 100 Hz (20% - 2)		100 to 250 Hz (10% - 2)		250 to 500 Hz (5% - 2)		500 to 1000 Hz (3% - 2)		1000 to 2500 Hz (1% - 2)		2500 to 5000 Hz (0.5% - 2)		5000 to 10000 Hz (0.2% - 2)		10000 to 20000 Hz (0.1% - 2)		20000 to 50000 Hz (0.05% - 2)		50000 to 100000 Hz (0.02% - 2)		100000 to 200000 Hz (0.01% - 2)		200000 to 500000 Hz (0.005% - 2)		500000 to 1000000 Hz (0.002% - 2)		1000000 to 2000000 Hz (0.001% - 2)		2000000 to 5000000 Hz (0.0005% - 2)		5000000 to 10000000 Hz (0.0002% - 2)		10000000 to 20000000 Hz (0.0001% - 2)		20000000 to 50000000 Hz (0.00005% - 2)		50000000 to 100000000 Hz (0.00002% - 2)		100000000 to 200000000 Hz (0.00001% - 2)		200000000 to 500000000 Hz (0.000005% - 2)		500000000 to 1000000000 Hz (0.000002% - 2)		1000000000 to 2000000000 Hz (0.000001% - 2)		2000000000 to 5000000000 Hz (0.0000005% - 2)		5000000000 to 10000000000 Hz (0.0000002% - 2)		10000000000 to 20000000000 Hz (0.0000001% - 2)		20000000000 to 50000000000 Hz (0.00000005% - 2)		50000000000 to 100000000000 Hz (0.00000002% - 2)		100000000000 to 200000000000 Hz (0.00000001% - 2)		200000000000 to 500000000000 Hz (0.000000005% - 2)		500000000000 to 1000000000000 Hz (0.000000002% - 2)		1000000000000 to 2000000000000 Hz (0.000000001% - 2)		2000000000000 to 5000000000000 Hz (0.0000000005% - 2)		5000000000000 to 10000000000000 Hz (0.0000000002% - 2)		10000000000000 to 20000000000000 Hz (0.0000000001% - 2)		20000000000000 to 50000000000000 Hz (0.00000000005% - 2)		50000000000000 to 100000000000000 Hz (0.00000000002% - 2)		100000000000000 to 200000000000000 Hz (0.00000000001% - 2)		200000000000000 to 500000000000000 Hz (0.000000000005% - 2)		500000000000000 to 1000000000000000 Hz (0.000000000002% - 2)		1000000000000000 to 2000000000000000 Hz (0.000000000001% - 2)		2000000000000000 to 5000000000000000 Hz (0.0000000000005% - 2)		5000000000000000 to 10000000000000000 Hz (0.0000000000002% - 2)		10000000000000000 to 20000000000000000 Hz (0.0000000000001% - 2)		20000000000000000 to 50000000000000000 Hz (0.00000000000005% - 2)		50000000000000000 to 100000000000000000 Hz (0.00000000000002% - 2)		100000000000000000 to 200000000000000000 Hz (0.00000000000001% - 2)		200000000000000000 to 500000000000000000 Hz (0.000000000000005% - 2)		500000000000000000 to 1000000000000000000 Hz (0.000000000000002% - 2)		1000000000000000000 to 2000000000000000000 Hz (0.000000000000001% - 2)		2000000000000000000 to 5000000000000000000 Hz (0.0000000000000005% - 2)		5000000000000000000 to 10000000000000000000 Hz (0.0000000000000002% - 2)		10000000000000000000 to 20000000000000000000 Hz (0.0000000000000001% - 2)		20000000000000000000 to 50000000000000000000 Hz (0.00000000000000005% - 2)		50000000000000000000 to 100000000000000000000 Hz (0.00000000000000002% - 2)		100000000000000000000 to 200000000000000000000 Hz (0.00000000000000001% - 2)		200000000000000000000 to 500000000000000000000 Hz (0.000000000000000005% - 2)		500000000000000000000 to 1000000000000000000000 Hz (0.000000000000000002% - 2)		1000000000000000000000 to 2000000000000000000000 Hz (0.000000000000000001% - 2)		2000000000000000000000 to 5000000000000000000000 Hz (0.0000000000000000005% - 2)		5000000000000000000000 to 10000000000000000000000 Hz (0.0000000000000000002% - 2)
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•STC: • Irradiance 1000W/m²
 NOCT: • Airspeed 1.0m/s
 • Cell Temperature 25°C
 • Ambient Temperature 20°C
 • AN = 15
 • AN = 15
 • WindSpeed 1m/s

Linko

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570 W. A. WILZ 1971-1972. A large number of specimens to be sent to the University of Michigan, Ann Arbor, Michigan, U.S.A. for study.

KEY FEATURES

-  **Downsized Fuel Cell Technology**
World's first cell-battery efficient mono PERC half cut solar cells deliver high power in a small footprint
 -  **Designed for Heat and Life**
Uses the same Di-Power protective film as the Space Station. Mylar Lander can last for 25 year warranty
 -  **Shade Tolerant**
Even array shading delivers continued performance even with shading by trees or plants
 -  **Power Boost in Cloudy Conditions**
A special film generates light, boosting performance even with shading by trees or clouds
 -  **Protected Against All Environments**
Certified to withstand humidity, heat, ice, marine environments, wind, hailstorms and pocket snow

jinko

EAGLE 72HM G2

390-410 WATT • HALF CELL MONO PERC MODULE
Positive power tolerance of 0-+3%

- NYSE-listed since 2010, Bloomberg Tier 1 manufacturer
 - Best-selling medical probability for last 1 years
 - Top performance in the strictest 3rd party taps
 - 99.9% on-time delivery to the installer
 - Automated manufacturing utilizing artificial intelligence
 - Vertically-integrated light controls on quality
- Premium solar panel factories in USA and Malaysia

LINEAR PERFORMANCE WARRANTY

25-Year Performance Warranty



- 15.09.2017 2008 Credit of 5000000
- 15.09.2017 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760 2761 2762 2763 2764 2765 2766 2767 2768 2769 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2780 2781 2782 2783 2784 2785 2786 2787 2788 2789 2790 2791 2792 2793 2794 2795 2796 2797 2798 2799 2800 2801 2802 2803 2804 2805 2806 2807 2808 2809 2810 2811 2812 2813 2814 2815 2816

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