

PROJECT NOTES:

THIS PROJECT SHALL COMPLY WITH ALL APPLICABLE LOCAL ORDINANCES

ALL WORK SHALL COMPLY WITH RESPECTIVE NEC, IRC, IBC AND IFC MUNICIPAL CODES, AND ALL MANUFACTURERS' RECOMMENDATIONS AND SPECIFICATIONS.

PROPER ACCESS AND WORKING CLEARANCE WILL BE PROVIDED AT PROJECT SITE

A LADDER SHALL BE IN PLACE FOR THE INSPECTION TO COMPLY WITH OSHA REGULATIONS

THE SOLAR PV INSTALLATION WILL NOT OBSTRUCT ANY ROOF VENTS (PLUMBING, MECHANICAL, OR BUILDING, ETC).

ALL EQUIPMENT SHALL BE INSTALLED WITHIN AN ACCESSIBLE AREA FOR QUALIFIED PERSONNEL. ALL APPLICABLE EQUIPMENT IS TO BE UL LISTED. ALL COMPONENTS ARE LISTED FOR THEIR PURPOSE AND RATED FOR OUTDOOR USAGE WHEN APPROPRIATE.

ALL EQUIPMENT SHALL MEET MINIMUM SETBACKS REQUIRED BY NEC AND ANY OTHER APPLICABLE CODES.

ANY WIRING SYSTEMS INSTALLED IN DIRECT SUNLIGHT MUST BE RATED FOR EXPECTED OPERATING TEMPERATURES.

IF NECESSARY, ADDITIONAL AC DISCONNECT(S) SHALL BE PROVIDED WHERE THE INVERTER IS NOT WITHIN SIGHT OF THE AC DISCONNECT.

RACKING SYSTEM & PV ARRAY WILL BE INSTALLED ACCORDING TO CODE-COMPLIANT INSTALLATION MANUAL AND WILL FOLLOW MANUFACTURERS' **RECOMMENDATIONS AND SPECIFICATIONS.** WHEN POSSIBLE, ALL PV RELATED RACKING ATTACHMENTS WILL BE STAGGERED AMONGST THE **ROOF FRAMING MEMBERS.**

MODULES WILL BE FLUSH MOUNTED AND NOT EXCEED A MXIMUM OF 6" PARALLEL FROM THE ROOF PLANE ALL ROOF PENETRATIONS WILL BE SEALED WITH APPROVED ROOF SEALANT BY A LICENSED CONTRACTOR.

PROJECT NOTES CONTINUED:

ALL PV RELATED ROOF ATTACHMENTS ARE TO BE	AC
SPACED NO GREATER THAN THE SPAN DISTANCE SPECIFIED BY THE RACKING MANUFACTURER.	ACD
ANY CONDUIT EXPOSED TO SUNLIGHT ON ROOF SHALL BE LOCATED NO LESS THAN 7/8" ABOVE ROOF	APPR
SURFACE. ALL CONDUIT AND WIRE WILL BE LISTED AND	СВ
APPROVED FOR THEIR PURPOSE. CONDUIT AND WIRE SPECIFICATIONS ARE BASED ON MINIMUM CODE	DC
REQUIREMENTS AND ARE NOT MEANT TO LIMIT UP-SIZING.	DCD
CONDUCTORS SIZED ACCORDING TO NEC 690.8, NEC 690.7.	E
VOLTAGE DROP LIMITED TO 1.5%. DC WIRING LIMITED TO MODULE FOOTPRINT.	JB
MICROINVERTER WIRING SYSTEMS SHALL BE LOCATED AND SECURED UNDER THE ARRAY WITH SUITABLE	MIN
WIRING CLIPS. PHOTOVOLTAIC SYSTEM INVERTER IS UNGROUNDED.	MISC
NO CONDUCTORS ARE SOLIDLY GROUNDED IN THE INVERTER, AND SYSTEM COMPLIES WITH NEC ARTICLE	MSP
690. AC DISCONNECT(S) ARE VISIBLE, LOCKABLE AND	Ν
ACCESSIBLE TO QUALIFIED UTILITY PERSONNEL. LOCAL UTILITY PROVIDER SHALL BE NOTIFIED PRIOR	PV
TO USE AND THE SYSTEM WILL NOT BE INTERCONNECTED UNTIL APPROVAL FROM THE LOCAL	PVM
JURISDICTION AND THE UTILITY IS OBTAINED. A PV METER WILL BE INSTALLED IF REQUIRED BY	SB
AUTHORITY HAVING JURISDICTION ALL ELECTRICAL EQUIPMENT WILL BE PROPERLY	SI
LABELED WITH NECESSARY PLACARDS AS PER NEC 690	SQFT
	STC
	ТҮР
	UM

ABBREVIATIONS:

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ACD	ALTERNATIN
APPR	APPROXIMA
СВ	COMBINER B
DC	DIRECT CURF
DCD	DIRECT CURF
E	EXISTING
JB	JUNCTION B
MIN	MINIMUM
MISC	MISCELLANE
MSP	MAIN SERVIC
N	NEW
PV	PHOTOVOLT
PVM	PHOTOVOLT
SB	STORAGE BA
SI	STRING INVE
SI SQFT	STRING INVE
SI SQFT STC	STRING INVE SQUARE FOC STANDARD T
SI SQFT STC TYP	STRING INVE SQUARE FOC STANDARD T TYPICAL



GENERAL NOTES:

- 1. VISIBLE, LOCKABLE, AND LABELED AC DISCONNECT IS LOCATED WITHIN 10 FEET OF THE UTILITY METER.
- 2. NO ENCROACHMENT INTO EASEMENTS BY NEW SCOPE OF WORK (SOLAR MODULES, RACK/RAIL SYSTEMS, AND EQUIPMENT).
- 3. RAFTER LOCATIONS ARE APPROXIMATE AND MAY NOT DEPICT EXACT LOCATIONS. THEREFORE, ROOF ATTACHMENTS ARE SUBJECT TO CHANGE DURING INSTALLATION, BUT WILL NOT EXCEED MAXIMUM ROOF ATTACHMENT SPACING PROVIDED BY THE ENGINEER.
- 4. ROOF ATTACHMENTS ARE TO BE STAGGERED SO THAT NO ONE ATTACHMENT FALLS ON THE SAME STRUCTURAL MEMBER WITH THE EXCEPTION OF THE FIRST AND FINAL STRUCTURAL MEMBER HAVING TWO ROOF ATTACHMENTS.
- 5. FOR METAL ROOF INSTALLATIONS, ROOF ATTACHMENTS ARE TO BE MOUNTED TO THE SEAM OF THE METAL AND SHOULD STILL FOLLOW A STAGGERED PATTERN UNLESS SPECIFIED OTHERWISE BY THE ENGINEER.





	EN	DESIGNED FOR
5/12 H: 65° 72 KW DC : 2" X 6" @ 24" O.C.	PROJECT NAME & ADDRESS	ROCHELLE ODON 5767 CAMPUS BLVD NEW ORLEANS, LA 70126
YPE: SHINGLE		ENGINEER'S SIGNATURE & SEAL PRINCIPAL Engineering
		SDVOSB SDVOSB SDVOSB CVE
		STATE OF LOUIS
		Reg. No. 27448 REGISTERED POPESSIONAL ENGINEER
	Ì	emin & M. Jancofi. 08/25/2022
	Louis Princ	siana Firm No. EF-003168 sipal Engineering, Inc.
LEGEND		REVISIONS
ROOF ATTACHMENT	REV	DESCRIPTION DATE
CONDUIT		
RAIL	DATE	08/22/2022
STRUCTURAL MEMBER OR METAL SEAM	DRAWN	
FIRE SETBACK	5	SHEET IDENTIFICATION
		PV-3



PV Module: (21) DNA Aptos 440w Inverter: (21) Enphase IQ8A-72-2-US



EV: 1	SHEET:	1	OF	1
One- Desig	Line mer:			





DN/120

Solar for Innovators

Residential | Commercial



Designed & Engineered in Silicon Valley 440W | 435W | 430W

Our DNA Split Cell Series uses advanced selective emitter PERC technology with thin film layers to improve heat tolerance, increase photon capture, minimize resistive loss, and use 5% more of the available active area for optimal power performance. Our panels exceed IEC standards and come with an industry leading, 30-year warranty.

Linear Performance Warranty







Advanced Technology

Patented DNA[™] technology boosts power performance & module efficiency



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Maximum Panel Density

A Safe Investment

Advanced split cell technology with 10 ultra-thin busbars allows for less resistance and more photon capture

Industry leading 30 year warranty



Durable Design

Robust product design is resilient in extreme weather. Up to 5400 Pa snow load and 5400 Pa wind load



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1134mm

Electrical Specifications	DNA-120-MF10-430W	DNA-120-MF10-435W	DNA-120-MF10-440W
STCrated Output P _{mpp} (W)	430W	435W	440W
Module Efficiency	20.39%	20.62%	20.85%
Open Circuit Voltage V _{voc} (V)	40.80	41.10	41.34
Short Circuit Current I _{sc} (A)	13.61	13.70	13.80
Rated Voltage V_{mmp} (V)	33.82	34.02	34.16
Rated Voltage I _{maz} (A)	13.01	13.09	13.17
Standard Test Conditions for front-face of panel: 1000 W/m ² , 25°C, measurement uncertainty <3%			

Temperature Coefficients

Temperature Coefficients P _{mmp}	-0.35%/°C
Temperature Coefficients I _{sc}	+0.06%/°C
Temperature Coefficients V _{oc}	-0.29%/°C
Nominal Operating Cell Temperature (NOCT)	45°C

Test Operating Conditions

Maximum Series Fuse	25A
Maximum System Voltage	1,500 VDC (UL&IEC)
Maximum Load Capacity (Per UL 1703)	5400 PA Snow Load / 5400 Pa Wind Load
Fire Performance Class	Class C/Type 1

Packaging Configuration

Number of Modules per Pallet	31
Number of Pallets per 40ft. Container	24
Pallet Dimensions	2030 X 1220 X 1200
Pallet Weight (kg)	766
Container Weight (kg)	18,384





Aptos Solar Technology reserves the right to make specification changes without notice