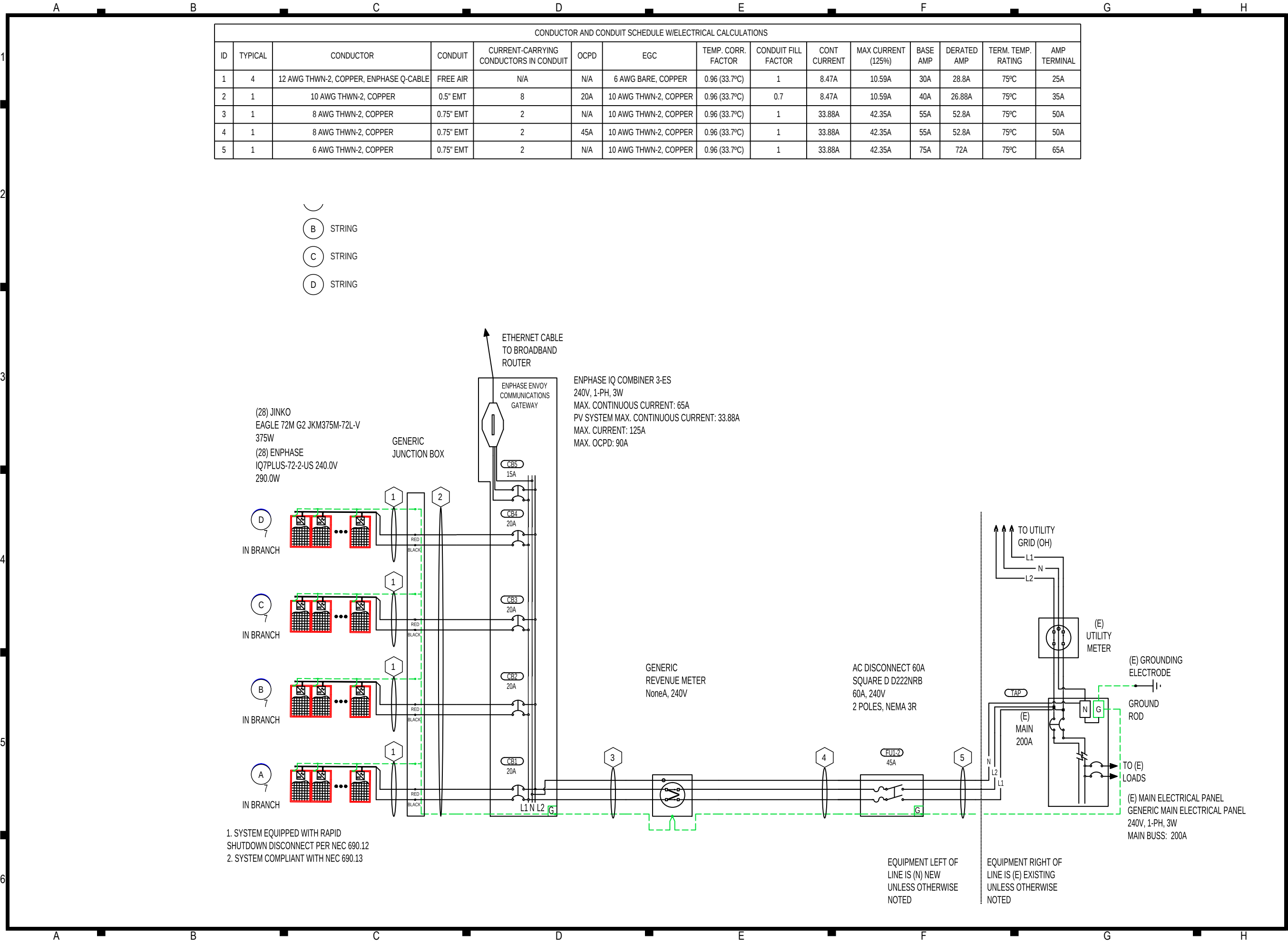




CONTRACTOR

STRAWBERRY SOLAR

PHONE: (313)-960-7900
ADDRESS: 4444 2ND AVENUE WAYNE COUNTY DETROIT, MI 48201

LIC.NO.: 2101211279

HIC.NO.:

ELE.NO.:

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NEW PV SYSTEM: 10,500 KWP

BARONE RESIDENCE

31 SCUDDERS ROAD
SPARTA TOWNSHIP,
NJ 07871

APN: 1826001000000004

ENGINEER OF RECORD

PAPER SIZE: 11" x 17" (ANSI B)

LINE DIAGRAM

DATE: 2023-12-12

DESIGN BY: A. SHAPOVALENKO

CHECKED BY: UKRDRAFTING

REVISIONS

E-601

(SHEET 1)

SYSTEM SUMMARY				
	BRANCH #1	BRANCH #2	BRANCH #3	BRANCH #4
INVERTERS PER BRANCH	7	7	7	7
MAX AC CURRENT	8.47A	8.47A	8.47A	8.47A
MAX AC OUTPUT POWER	2,030W	2,030W	2,030W	2,030W
ARRAY STC POWER	10,500W			
ARRAY PTC POWER	9,657W			
MAX AC CURRENT	33.88A			
MAX AC POWER	8,120W			
DERATED (CEC) AC POWER	8,120W			

MODULES										
REF.	QTY.	MAKE AND MODEL	PMAX	PTC	ISC	IMP	VOC	VMP	TEMP. COEFF. OF VOC	FUSE RATING
PM1-28	28	JINKO EAGLE 72M G2 JKM375M-72L-V	375W	344.90W	9.68A	9.33A	48.70V	9.33V	-0.141V/°C (-0.29%/°C)	20A

INVERTERS										
REF.	QTY	MAKE AND MODEL	AC VOLTAGE	GROUND	OCPD RATING	RATED POWER	MAX OUTPUT CURRENT	MAX INPUT CURRENT	MAX INPUT VOLTAGE	CEC WEIGHTED EFFICIENCY
I1-28	28	ENPHASE IQ7PLUS-72-2-US	240A	FLOATING	20A	290W	1.21A	20A	60V	97.0%

DISCONNECTS					OCPDS			
REF.	QTY.	MAKE AND MODEL	RATED CURRENT	MAX RATED VOLTAGE	REF.	QTY	RATED CURRENT	MAX VOLTAGE
SW1	1	SQUARE D D222NRB	60A	240V	CB1-4	4	20A	240V
					CB5	1	15A	240V
					FU1-2	2	45A	240V

ASHRAE EXTREME LOW	33.7°C (92.7°F), SOURCE: ESSEX CO (-74.28°; 40.88°)
ASHRAE 2% HIGH	33.7°C (92.7°F), SOURCE: ESSEX CO (-74.28°; 40.88°)

BILL OF MATERIAL							
CATEGORY	MAKE	MODEL NUMBER	REF	QTY	UNIT	QTY/UNIT	DESCRIPTION
PV MODULE	JINKO	EAGLE 72M G2 JKM375M-72L-V	PM1-28	28	PIECE	1	JINKO EAGLE 72M G2 JKM375M-72L-V 375W 72 CELLS, MONOCRYSTALLINE SILICON
INVERTER	ENPHASE	IQ7PLUS-72-2-US	I1-28	28	PIECE	1	ENPHASE IQ7PLUS-72-2-US 290W MICROINVERTER
DISCONNECT	SQUARE D	D222NRB	SW1	1	PIECE	1	SQUARE D D222NRB, FUSED, 2-POLE, 60A, 240VAC, NEMA 3R OR EQUIVALENT
AC COMBINER PANEL	ENPHASE	IQ COMBINER 3-ES	EP1	1	PIECE	1	ENPHASE IQ COMBINER 3-ES 125A COMBINER PANEL
PRODUCTION METER	GENERIC	GENERIC PV METER	PVM1	1	PIECE	1	GENERIC PV METER
MONITORING	ENPHASE	ENPHASE-ENVOY	ENV1	1	PIECE	1	ENPHASE ENVOY
WIRING	GENERIC	Q-12-10-240	WR1	119	FEET	1	ENPHASE Q-CABLE
WIRING	GENERIC	GEN-6-AWG-BARE-CU	WR1	119	FEET	1	6 AWG BARE, COPPER (GROUND)
WIRING	GENERIC	GEN-10-AWG-THWN-2-CU-RD	WR2	40	FEET	1	10 AWG THWN-2, COPPER, RED (LINE 1)
WIRING	GENERIC	GEN-10-AWG-THWN-2-CU-BLK	WR2	40	FEET	1	10 AWG THWN-2, COPPER, BLACK (LINE 2)
WIRING	GENERIC	GEN-10-AWG-THWN-2-CU-GR	WR2-5	70	FEET	1	10 AWG THWN-2, COPPER, GREEN (GROUND)
WIRING	GENERIC	GEN-8-AWG-THWN-2-CU-RD	WR3-4	20	FEET	1	8 AWG THWN-2, COPPER, RED (LINE 1)
WIRING	GENERIC	GEN-8-AWG-THWN-2-CU-BLK	WR3-4	20	FEET	1	8 AWG THWN-2, COPPER, BLACK (LINE 2)
WIRING	GENERIC	GEN-8-AWG-THWN-2-CU-WH	WR3-4	20	FEET	1	8 AWG THWN-2, COPPER, WHITE (NEUTRAL)
WIRING	GENERIC	GEN-6-AWG-THWN-2-CU-RD	WR5	10	FEET	1	6 AWG THWN-2, COPPER, RED (LINE 1)
WIRING	GENERIC	GEN-6-AWG-THWN-2-CU-BLK	WR5	10	FEET	1	6 AWG THWN-2, COPPER, BLACK (LINE 2)
WIRING	GENERIC	GEN-6-AWG-THWN-2-CU-WH	WR5	10	FEET	1	6 AWG THWN-2, COPPER, WHITE (NEUTRAL)
WIREWAY	GENERIC	GEN-EMT-0.5"-DIA	WW2	10	FEET	1	EMT CONDUIT 0.5" DIA
WIREWAY	GENERIC	GEN-EMT-0.75"-DIA	WW3-5	30	FEET	1	EMT CONDUIT 0.75" DIA
OCPD	GENERIC	GEN-CB-20A-240VAC	CB1-4	4	PIECES	1	CIRCUIT BREAKER, 20A, 240VAC
OCPD	GENERIC	GEN-CB-15A-240VAC	CB5	1	PIECE	1	CIRCUIT BREAKER, 15A, 240VAC
OCPD	GENERIC	GEN-FU-45A-240VAC	FU1-2	2	PIECES	1	FUSE, 45A, 240VAC
TRANSITION ENCLOSURE	GENERIC	GEN-AWB-TB-4-4X	JB1	1	PIECE	1	TRANSITION/PASS-THROUGH BOX, WITH 4 TERMINAL BLOCKS



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NEW PV SYSTEM: 10,500 KWP

BARONE RESIDENCE

31 SCUDDERS ROAD SPARTA TOWNSHIP, NJ 07871

APN: 1826001000000004

ENGINEER OF RECORD

PAPER SIZE: 11" x 17" (ANSI B)

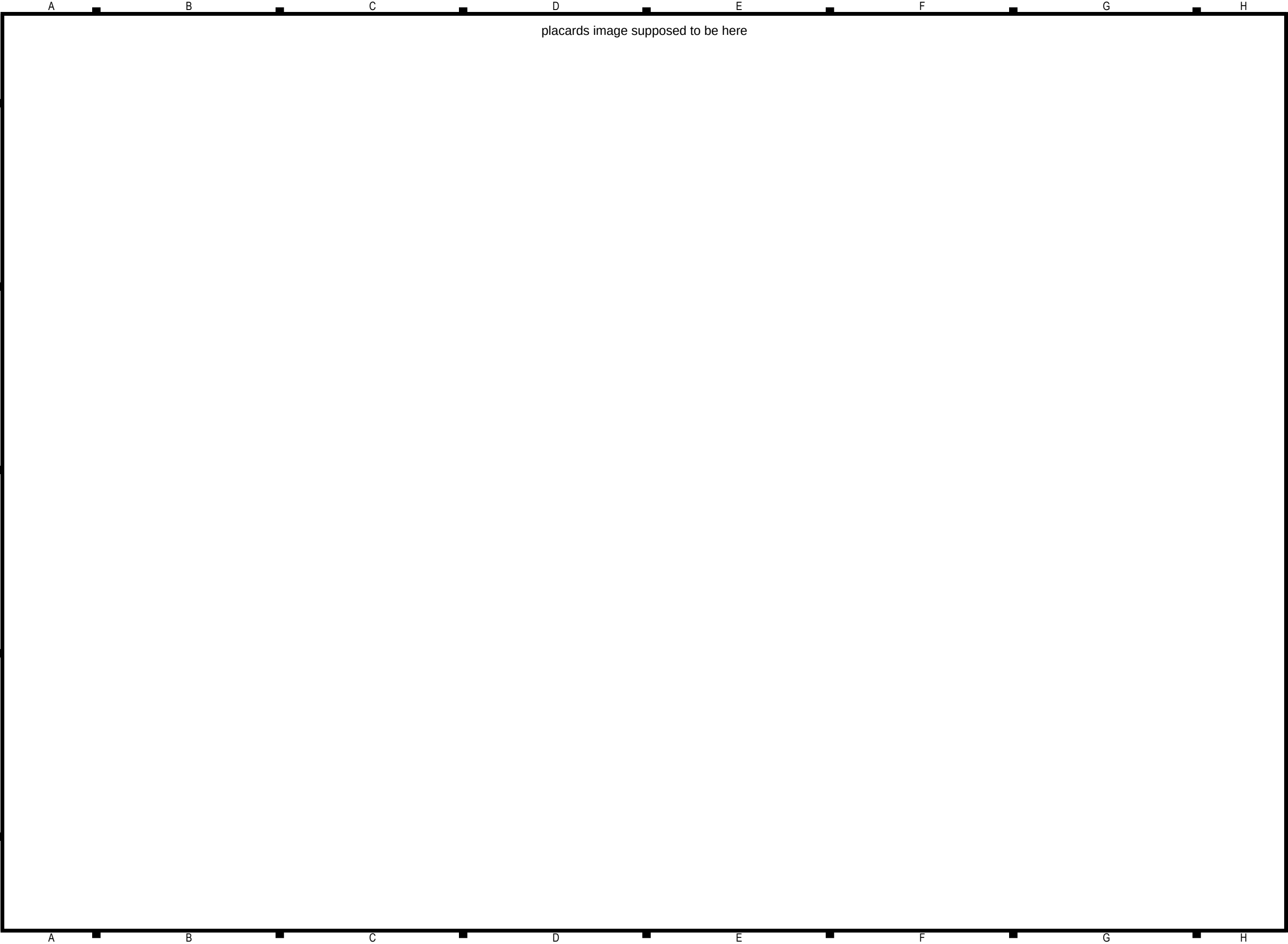
ELECTRICAL PLAN

DATE: 2023-12-12

DESIGN BY: A. SHAPOVALENKO

CHECKED BY: UKRDRAFTING

REVISIONS



CONTRACTOR

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PLACARDS

DATE: 2023-12-12

DESIGN BY: A. SHAPOVALENKO

CHECKED BY: UKRDRAFTING

REVISIONS

E-603

(SHEET 3)

jinkosolar.us



Eagle 72M G2 375-395 Watt

MONO PERC MODULE

Positive power tolerance of 0~+3%



KEY FEATURES



Diamond Cell Technology

Uniquely designed high performance 5 busbar mono PERC cell



High Voltage

UL and IEC 1500V certified; lowers BOS costs and yields better LCOE



PID Free

Reinforced cell prevents potential induced degradation



Better Low-Light Performance

Excellent performance in low-light environments



Strength and Durability

Certified for high snow (5400Pa) and wind (2400Pa) loads

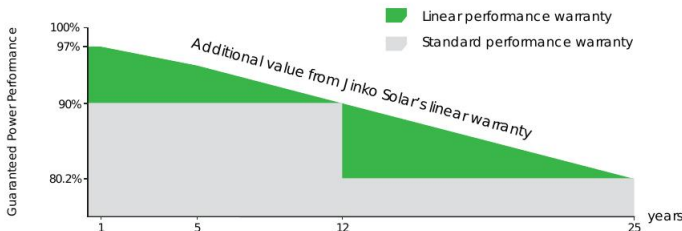


Weather Resistance

Certified for salt mist and ammonia resistance

LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty • 25 Year Linear Power Warranty



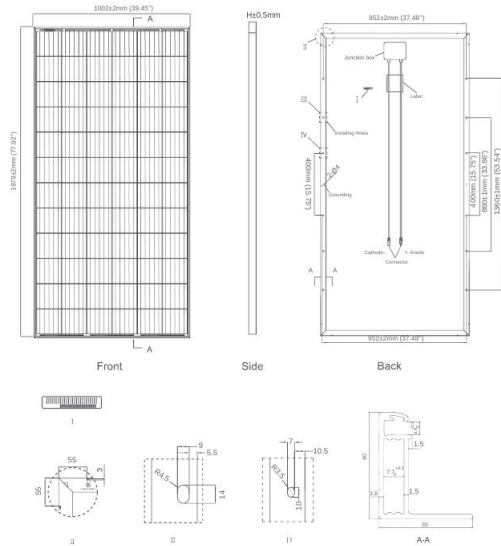
- ISO9001:2008 Quality Standards
- ISO14001:2004 Environmental Standards
- OHSAS18001 Occupational Health & Safety Standards
- IEC61215, IEC61730 certified products
- UL1703 certified products

Nomenclature:
JKM395M - 72L - V

Code	Cell	Code	Certification
null	Normal	null	1000V
L	Diamond	V	1500V



Engineering Drawings



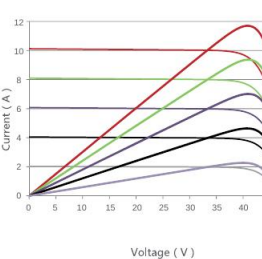
Packaging Configuration

(Two pallets = One stack)

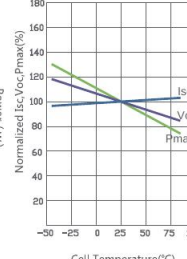
26pcs/pallet, 52pcs/stack, 572pcs/40'HQ Container

Electrical Performance & Temperature Dependence

Current-Voltage & Power-Voltage Curves (390W)



Temperature Dependence of Isc, Voc, Pmax



Mechanical Characteristics

Cell Type	Mono PERC Diamond Cell (158.75 x 158.75 mm)
No. of Cells	72 (6×12)
Dimensions	1979×1002×40mm (77.91×39.45×1.57 inch)
Weight	22.5 kg (49.6 lbs.)
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminum Alloy
Junction Box	IP67 Rated
Output Cables	12 AWG, Length 1200mm (55.11in) or Customized Length
Fire Type	Type 1

SPECIFICATIONS

Module Type	JKM375M-72L-V		JKM380M-72L-V		JKM385M-72L-V		JKM390M-72L-V		JKM395M-72L-V	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	375Wp	282Wp	380Wp	286Wp	385Wp	290Wp	390Wp	294Wp	395Wp	298Wp
Maximum Power Voltage (Vmp)	40.2V	38.3V	40.5V	38.6V	40.8V	38.8V	41.1V	39.1V	41.4V	39.3V
Maximum Power Current (Imp)	9.33A	7.36A	9.39A	7.42A	9.44A	7.48A	9.49A	7.54A	9.55A	7.60A
Open-circuit Voltage (Voc)	48.7V	47.2V	48.9V	47.5V	49.1V	47.7V	49.3V	48.0V	49.5V	48.2V
Short-circuit Current (Isc)	9.68A	7.82A	9.75A	7.88A	9.92A	7.95A	10.12A	8.02A	10.23A	8.09A
Module Efficiency STC (%)	18.91%		19.16%		19.42%		19.67%		19.92%	
Operating Temperature (°C)	-40°C~+85°C									
Maximum System Voltage	1500VDC (UL and IEC)									
Maximum Series Fuse Rating	20A									
Power Tolerance	0~+3%									
Temperature Coefficients of Pmax	-0.37%/°C									
Temperature Coefficients of Voc	-0.28%/°C									
Temperature Coefficients of Isc	0.048%/°C									
Nominal Operating Cell Temperature (NOCT)	45±2°C									

STC: ☀ Irradiance 1000W/m² 📦 Cell Temperature 25°C ☁ AM=1.5

NOCT: ☀ Irradiance 800W/m² 📦 Ambient Temperature 20°C ☁ AM=1.5 🌀 Wind Speed 1m/s

* Power measurement tolerance: ± 3%

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.
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JKM375-395M-72L-V-A1B1-US-ForSPI



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RESOURCE DOCUMENT

DATE: 2023-12-12

DESIGN BY: A. SHAPOVALENKO

CHECKED BY: UKRDRAFTING

REVISIONS

R-001

(SHEET 4)

Data Sheet
Enphase Microinverters
Region: AMERICAS

Enphase
IQ 7 and IQ 7+
Microinverters

The high-powered smart grid-ready
Enphase IQ 7 Micro™ and **Enphase IQ 7+ Micro™**
dramatically simplify the installation process while
achieving the highest system efficiency.

Part of the Enphase IQ System, the IQ 7 and
IQ 7+ Microinverters integrate with the Enphase
IQ Envoy™, Enphase IQ Battery™, and the Enphase
Enlighten™ monitoring and analysis software.

IQ Series Microinverters extend the reliability
standards set forth by previous generations and
undergo over a million hours of power-on testing,
enabling Enphase to provide an industry-leading
warranty of up to 25 years.



To learn more about Enphase offerings, visit enphase.com

Easy to Install

- Lightweight and simple
- Faster installation with improved, lighter two-wire cabling
- Built-in rapid shutdown compliant (NEC 2014 & 2017)

Productive and Reliable

- Optimized for high powered 60-cell/120 half-cell and 72-cell/144 half-cell* modules
- More than a million hours of testing
- Class II double-insulated enclosure
- UL listed

Smart Grid Ready

- Complies with advanced grid support, voltage and frequency ride-through requirements
- Remotely updates to respond to changing grid requirements
- Configurable for varying grid profiles
- Meets CA Rule 21 (UL 1741-SA)

* The IQ 7+ Micro is required to support 72-cell/144 half-cell modules.



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DATE: 2023-12-12

DESIGN BY: A. SHAPOVALENKO

CHECKED BY: UKRDRAFTING

REVISIONS

R-002
(SHEET 5)