

Application ID (CORE use only): _____

Level 1 Application and/or Energy Storage Application

Interconnecting a Certified Inverter-Based Small Generating Facility No Larger than Twenty-five (25) kW for Residential or Twenty-five (25) kW for Commercial

Interconnection Customer Information

Name: _____ Contact Person: _____

Account Number: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone Number: _____ E-Mail _____

Equipment Installation Contractor/Electrical Contractor (If different from above)

Contact Name: _____

Company Name: _____

Contact Phone Number: _____ E-Mail Address: _____

Small Generating Facility Information

New Existing Not Applicable

Inverter Manufacturer: _____ Model: _____

System AC Rating: _____ (kW) _____ (AC Volts)

System DC Rating: _____ (kW)

Projected Annual Energy Production: _____ (kWh)

Single Phase Three Phase

I Acknowledge that power must be exported to the grid at a power factor of .95 or higher

Energy Storage Information:

New Existing Not Applicable

Energy Storage Inverter Manufacturer: _____ Model: _____

I Acknowledge that batteries are subject to no-export restrictions

Please include the following documents:

One Line Diagram

Site Plan (Including Production Meter Location)

Site Control Documentation

Specification Sheets for the Modules, Batteries, and Inverter(s)

\$100 Application Processing Fee

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This Application shall be deemed complete when the Interconnection Customer provides all applicable and correct information required below, as well as any additional information required by CORE to evaluate the Request. The terms of this Application are governed by the provisions applicable to the Level 1 Process of the Association's Small Generation Interconnection Procedures and/or Energy Storage Procedure, as the same may be amended, modified, or restated from time to time.

Interconnection Customer Signature

I hereby certify that, to the best of my knowledge, the information provided in this Application is true. I agree to abide by the Terms and Conditions for Interconnecting an Inverter-Based Small Generating Facility No Larger than twenty-five (25) kW for residential or twenty-five (25) kW for commercial and return the Certificate of Completion when the Small Generating Facility has been installed. I further agree that CORE shall be entitled to any renewable energy credits or other similar attributes associated with the production of electricity by the equipment referred to in this application upon interconnection of that equipment, until such time as CORE is notified in writing of the transfer or assignment of such credits or attributes to a third party.

I UNDERSTAND THAT ONLY SYSTEMS UP TO LESSER OF 200% OF THE 12 MONTH HISTORICAL USAGE AT THE METER LOCATION, OR 10 KW FOR RESIDENTIAL, OR 25 KW FOR COMMERCIAL ARE ELIGIBLE FOR NET METERING.

I UNDERSTAND THAT CORE HAS THE RIGHT TO CHANGE ITS RATES AT ANY TIME AND THAT FUTURE REVISIONS MAY INCLUDE A REDUCTION IN THE ENERGY CREDIT RATE, THE ADDITION OF A DEMAND CHARGE, AN INCREASED SERVICE CHARGE, A MODIFICATION TO THE COMPENSATION PAID FOR ANNUAL EXCESS GENERATION, OR OTHER CHANGES THAT WOULD ALLOW CORE TO RECOVER COSTS OF PROVIDING SERVICE TO NET METERING AND OTHER CUSTOMERS.

I UNDERSTAND THAT SUCH REVISIONS, IF ADOPTED, MAY AFFECT THE RELATIVE COSTS AND ECONOMIC BENEFITS OF MY GENERATION EQUIPMENT AND I ACKNOWLEDGE THAT IN AGREEING TO INTERCONNECT MY GENERATION EQUIPMENT, CORE RESERVES ITS RIGHT TO ESTABLISH RATES DESIGNED TO FULLY RECOVER ITS COSTS AND MAKES NO COMMITMENT TO ME THAT IT WILL CONTINUE ITS CURRENT RATES OR RATE STRUCTURE FOR ANY PERIOD OF TIME.

Signed: _____

Title: _____ Date: _____

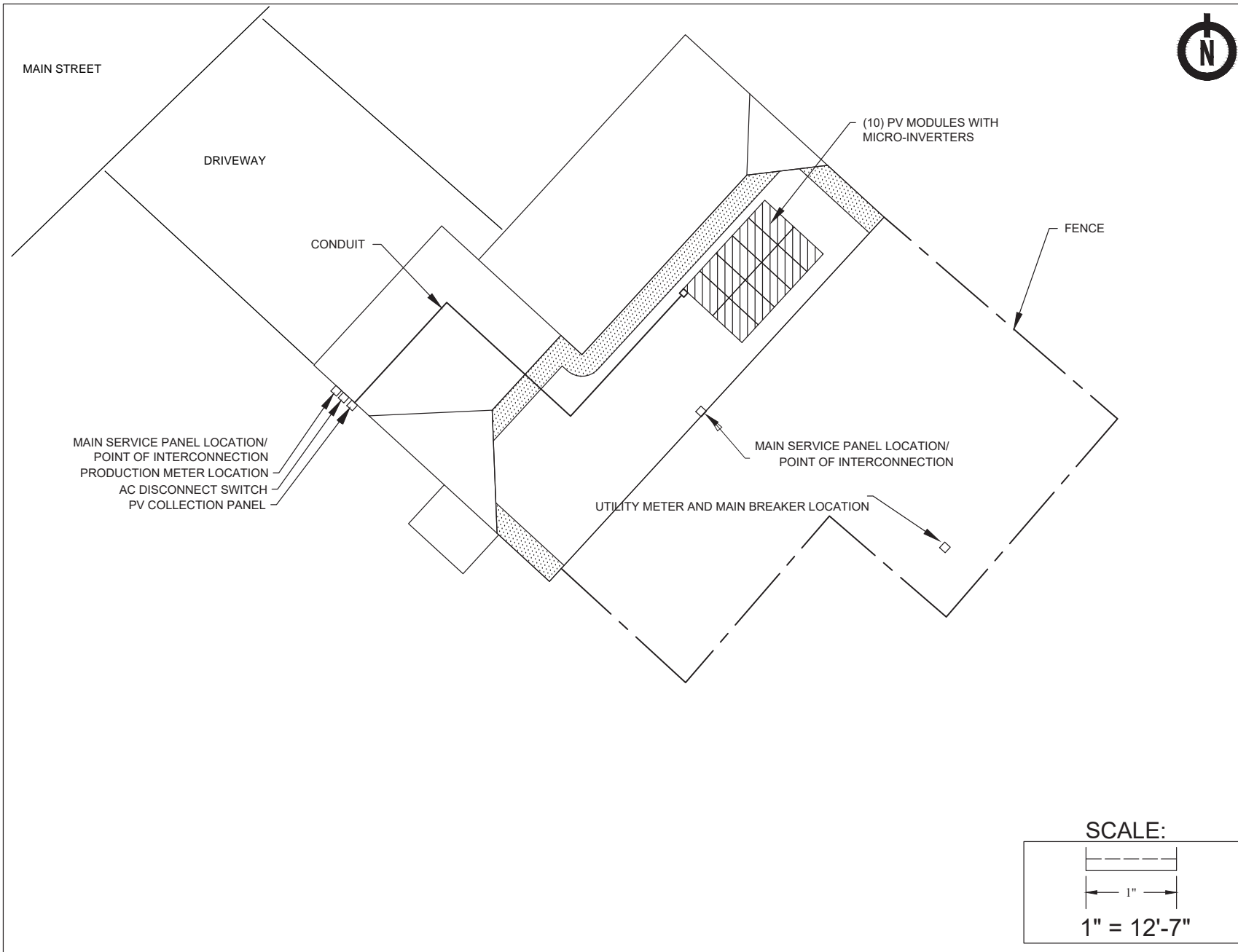
Contingent Approval

(For CORE use only)

Interconnection of the Small Generating Facility and/or Inverter-Based Energy Storage Device is approved contingent upon the Terms and Conditions for Interconnecting an Inverter-Based Small Generating Facility No Larger than twenty-five (25) kW for residential or twenty-five (25) kW for commercial and return of the Certificate of Completion.

CORE Signature: _____

Title: _____ Date: _____




Super Sun Solar

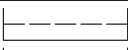
MARTY MCFLY
 4321 MAIN ST
 PORTLAND, OR 97215

SYSTEM SIZE: 3.0 kW DC
 2.40 kW AC
 10 MODULES

DATE: 6/3/1776

DRAWN BY: MW

ADDITIONAL NOTES:
 PV CIRCUIT 1

SCALE:

 1" = 12'-7"

SHEET:
SITE PLAN

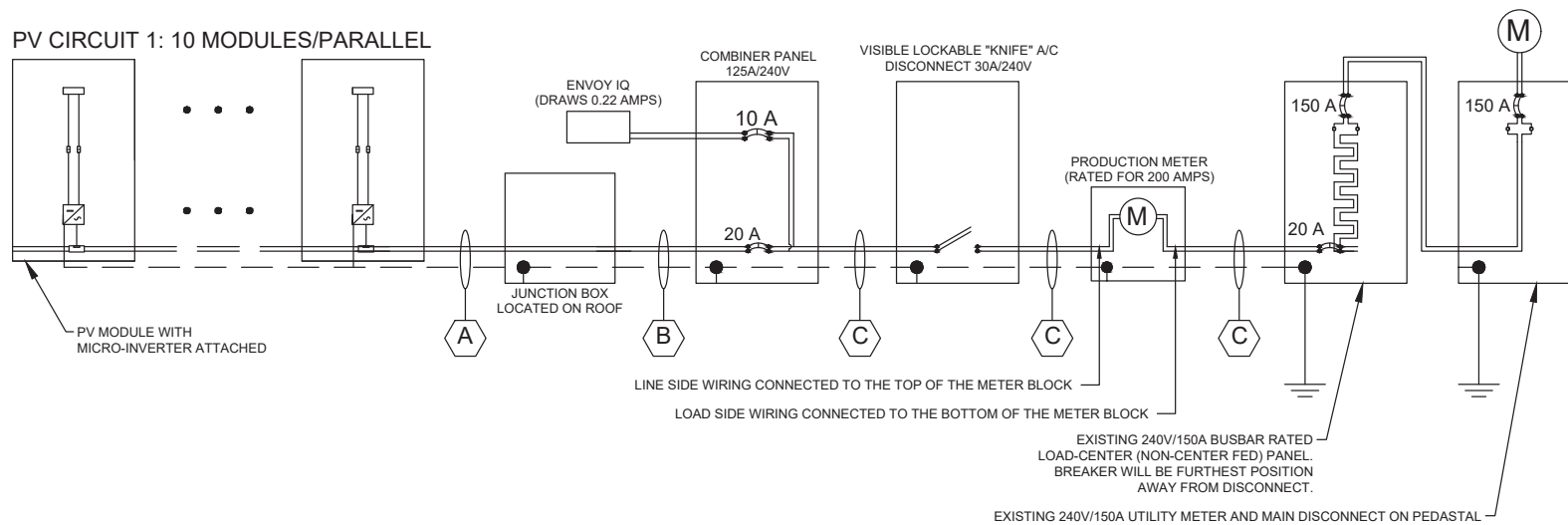
(10) MICRO-INVERTERS
(10) PV PANELS

**MICRO-INVERTER
ATTACHED TO EACH
PV PANEL**

PV MODULE SPECIFICATIONS		
MODULE MAKE AND MODEL	PV XYZ 300	
MAXIMUM POWER (DC)	300	WATTS
MAX POWER-POINT VOLTAGE (VMPP)	33.7	VOLTS
MAX POWER-POINT CURRENT (IMPP)	9.50	AMPS
OPEN CIRCUIT VOLTAGE (VOC)	40.45	VOLTS
SHORT CIRCUIT CURRENT (ISC)	9.96	AMPS
TEMPERATURE COEFFICIENT VOC	-0.3	%/°C
MAXIMUM SYSTEM VOLTAGE	1000V DC (UL)	

MICRO-INVERTER SPECIFICATIONS		
INVERTER MAKE AND MODEL	MICROPHASE IN8-75	
RATED OUTPUT POWER (AC)	240	WATTS
NOMINAL OUTPUT VOLTAGE (AC)	240	VOLTS
MAX OUTPUT CURRENT (AC)	1	AMPS
MAX INPUT VOLTAGE (DC)	48	VOLTS
MAX INPUT CURRENT (DC)	15	AMPS
MAX OCPD RATING (AC)	20	AMPS
MAX NUMBER OF PANELS PER CIRCUIT	16	
POWER FACTOR SETTING	1.0	

PV CIRCUIT 1: 10 MODULES/PARALLEL



AC PHOTOVOLTAIC SYSTEM RATINGS

MAX AC OPERATING CURRENT	10	AMPS
MAX AC OPERATING VOLTAGE	240	VOLTS

*ROMEX/MC CABLE WILL BE RAN THROUGH THE ATTIC WHERE POSSIBLE

** IF MORE THAN 12 CONDUCTORS, TWO SEPARATE RACEWAYS MAY BE INSTALLED WITH NO MORE THAN 12 CONDUCTORS IN EACH RACEWAY OTHERWISE, #8 WIRE AND 3/4" CONDUIT MUST BE USED WHERE APPLICABLE

RACEWAY AND CONDUCTOR SCHEDULE

TAG	CONDUCTOR TYPE Q-	MINIMUM WIRE SIZE	# OF CONDUCTORS	RACEWAY / CABLE TYPE	MINIMUM CONDUIT SIZE
A	CABLE (USE-2)	12	2	USE-2 / FREE AIR	FREE AIR
	BARE COPPER (EGC)	6	1	BARE / FREE AIR	
B	THWN-2 OR NM (ROMEX/MC) *	10	2	EMT OR ROMEX/MC CABLE	3/4"
	THWN-2 OR NM (ROMEX/MC) (EGC)	10	1		
C	THWN-2	6	3	EMT	3/4"
	THWN-2 (EGC)	8	1		

**Super Sun
Solar**

MARTY MCFLY
4321 MAIN ST
PORTLAND, OR 97215

SYSTEM SIZE: 3.0 kW DC
2.40 kW AC
10 MODULES

DATE: 6/3/1776

DRAWN BY: MW

ADDITIONAL NOTES:

SHEET: 1-LINE

MICRO-phase IN8-75 Microinverters

INPUT DATA (DC)		IN8-75	
Commonly used module pairings ¹	235 W - 350 W +		
Module compatibility	60-cell PV modules only		
Maximum input DC voltage	48 V		
Peak power tracking voltage	27 V - 37 V		
Operating range	16 V - 48 V		
Min/Max start voltage	22 V / 48 V		
Max DC short circuit current (module I _{sc})	15 A		
Overvoltage class DC port	II		
DC port backfeed current	0 A		
PV array configuration	1 x 1 ungrounded array; No additional DC side protection required; AC side protection requires max 20A per branch circuit		
OUTPUT DATA (AC)		IN8-75 Microinverter	
Peak output power	250 VA		
Maximum continuous output power	240 VA		
Nominal (L-L) voltage/range ²	240 V / 211-264 V	208 V / 183-229 V	
Maximum continuous output current	1.0 A (240 V)	1.15 A (208 V)	
Nominal frequency	60 Hz		
Extended frequency range	47 - 68 Hz		
AC short circuit fault current over 3 cycles	5.8 Arms		
Maximum units per 20 A (L-L) branch circuit ³	16 (240 VAC)	13 (208 VAC)	
Overvoltage class AC port	III		
AC port backfeed current	0 A		
Power factor setting	1.0		
Power factor (adjustable)	0.85 leading ... 0.85 lagging		
EFFICIENCY		@240 V	@208 V
Peak efficiency	97.6 %	97.6 %	
CEC weighted efficiency	97.0 %	97.0 %	
MECHANICAL DATA			
Ambient temperature range	-40°C to +65°C		
Relative humidity range	4% to 100% (condensing)		
Connector type (IQ7-60-2-US & IQ7PLUS-72-2-US)	MC4 (or Amphenol H4 UTX with additional Q-DCC-5 adapter)		
Dimensions (WxHxD)	212 mm x 175 mm x 30.2 mm (without bracket)		
Weight	1.08 kg (2.38 lbs)		
Cooling	Natural convection - No fans		
Approved for wet locations	Yes		
Pollution degree	PD3		
Enclosure	Class II double-insulated, corrosion resistant polymeric enclosure		
Environmental category / UV exposure rating	NEMA Type 6 / outdoor		
FEATURES			
Communication	Power Line Communication (PLC)		
Monitoring	Enlighten Manager and MyEnlighten monitoring options. Both options require installation of an Enphase IQ Envoy.		
Disconnecting means	The AC and DC connectors have been evaluated and approved by UL for use as the load-break disconnect required by NEC 690.		
Compliance	CA Rule 21 (UL 1741-SA) UL 62109-1, UL1741/IEEE1547, FCC Part 15 Class B, ICES-0003 Class B, CAN/CSA-C22.2 NO. 107.1-01 This product is UL Listed as PV Rapid Shut Down Equipment and conforms with NEC-2014 and NEC-2017 section 690.12 and C22.1-2015 Rule 64-218 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according manufacturer's instructions.		

SOLAR MODULES 300W-325W

PV XYZ

MECHANICAL CHARACTERISTICS

Solar Cells	Monocrystalline 156mm x 156mm square, 6 x 12 pieces in series
Dimension	Length: 1956mm (77.0 inch)
	Width: 992mm (39.1 inch)
	height: 45mm (1.8inch)
Weight	24kg(52.9lbs)
Front Glass	3.2mm toughened glass
Frame	Anodized aluminium alloy
Cable	4mm ² (IEC) / 12AWG(UL), 1100mm
Junction Box	IP 67 rated

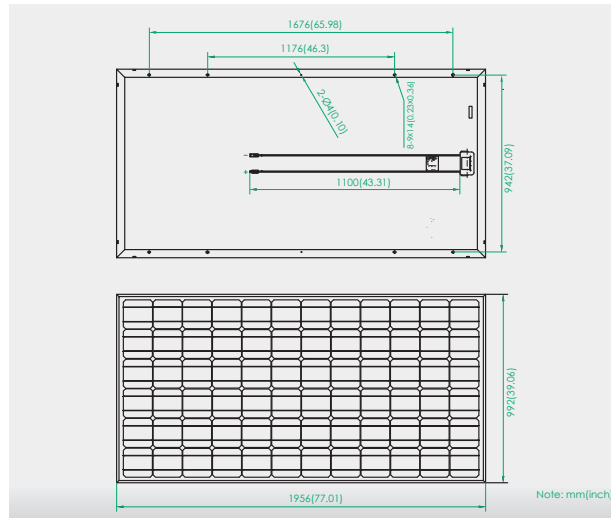
ABSOLUTE MAXIMUM RATING

Parameter	Values
Operating Temperature	From -40 to +85°C
Hail Diameter @ 80km/h	Up to 25mm
Surface Maximum Load Capacity	Up to 5400Pa
Maximum Series Fuse Rating	15A
IEC Application Class (IEC61730)	A
Fire Rating (UL 1703)	C
Maximum System Voltage	DC 1000V(IEC)
	DC 600V(UL)/1000V(ETL)

ELECTRICAL TYPICAL VALUES^{(4),(5)}

Model	Rated Power (P _{mpo})	Rated Current (I _{mpo})	Rated Voltage (V _{mpo})	Short Circuit Current (I _{sc})	Open Circuit Voltage (V _{oc})	Module Efficiency (%)
PS300M-24/T	300W	8.17	36.7	8.60	45.9	15.46
PS305M-24/T	305W	8.26	36.9	8.68	46.1	15.72
PS310M-24/T	310W	8.36	37.1	8.75	46.3	15.98
PS315M-24/T	315W	8.45	37.3	8.82	46.5	16.23
PS320M-24/T	320W	8.55	37.4	8.90	46.7	16.49
PS325M-24/T	325W	8.64	37.6	8.98	46.9	16.75

DIMENSIONS



TEMPERATURE CHARACTERISTICS

NOCT (Nominal Operation Cell Temperature)	45°C ± 2°C
Voltage Temperature Coefficient	-0.33%/K
Current Temperature Coefficient	+0.06%/K
Power Temperature Coefficient	-0.43%/K

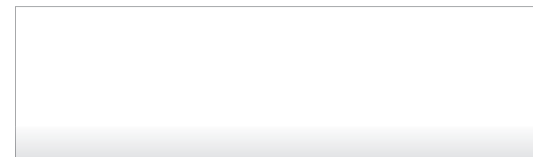
WEAK LIGHT PERFORMANCE

Intensity (W/m ²)	I _{mpo}	V _{mpo}
1000	1.0	1.000
800	0.8	0.996
600	0.6	0.990
400	0.4	0.983
200	0.2	0.952

PACKING CONFIGURATION

Container	40' HQ
Pieces per pallet	22
Pallets per container	22
Pieces per container	484

PARTNER INFORMATION



- Anti-PID modules are only available upon request.
- UL 1703 listed
- In PV Cycle member countries only, see: www.pvcycle.org
- Defined as standard deviation of thousands measurements. Absolute power values depend on the measuring system. They can differ by +/-5% from one measuring system to another.
- Measurement conditions under irradiance level of Standard Test Conditions(STC): 1000W/m², Air mass 1.5 Spectrum, cell temperature of 25°C.