







MODULE SPECIFICATIONS		
PIUDULE SPECIFICATIONS		
Q CELL Q.PLUS L-G4.2		
STC RATING	340.00	
V _{MP}	37.63	
I _{MP}	9.03	
V _{oc}	47.07	
I _{SC}	9.59	
TEMP COEFF. V _{OC} [%/°C]	-0.29%	

SYSTEM SPECIFICATIONS		
Max DC Voltage (-27°C)	866.69	V
DC OPERATING VOLTAGE (MAX)	602.08	V
MAX DC CURRENT, PER STRING	11.99	А
DC OPERATING CURRENT, PER STRING	9.03	А
Max AC Inverter Output	29.00	Α
AC Nominal Voltage	480 / 277 WYE	V

INVERTER SPECIFICATIONS		
SMA SUNNY TRIPOWER STP24000TL-US-10		
NOMINAL AC RATING [W]	24000.0	
Rated MPPT Range V_{DC}	450 - 800	
Max Input V _{DC}	1000.0	
Nominal V _{ac}	480 / 277 WYE	
Μαχ Ι _{ας}	29.0	
CEC EFFICIENCY	98.0%	

ELECTRICAL DESIGN NOTES

- ALL PHOTOVOLTAIC EQUIPMENT IS RATED FOR USE AND LISTED BY A RECOGNIZED LABORATORY.
- ALL PHOTOVOLTAIC EQUIPMENT IS OUTDOOR RATED AND LISTED FOR 1000 VDC.
- LOWEST EXPECTED AMBIENT TEMPERATURE IS BASED ON ASHRAE EXTREME MIN FOR THE SPECIFIED LOCATION.
- AVERAGE HIGH TEMPERATURE IS BASED ON ASHRAE 2% AVG. FOR THE SPECIFIED LOCATION.
- GROUNDING AND BONDING PROCEDURES FOR ALL PHOTOVOLTAIC EQUIPMENT COMPLY WITH NEC 2014.
- RAPID SHUTDOWN REQUIREMENTS ARE IN ACCORDANCE WITH NEC 690.12.
- BUSBAR RULE: 1.20(3000) 3000 = 600 AMPS OF SOLAR BACKFEED. •
- CONDUIT BETWEEN SUBARRAYS, COMBINERS, AND DISCONNECTS SHALL TAKE THE SHORTEST REASONABLE PATH.
- SPACE REQUIREMENTS FOR ELECTRICAL EQUIPMENT SHALL COMPLY WITH NEC ARTICLE IIO.
- ANY PLAQUES SHALL BE OF METAL OR PLASTIC CONSTRUCTION, WITH ENGRAVED OR MACHINE PRINTED LETTERING, OR ELECTRO-PLATING, IN A RED BACKGROUND WITH WHITE LETTERING, A MINIMUM OF 3/8" HEIGHT AND ALL CAPITAL LETTERS.



142 PRESUMPSCOT ST PORTLAND, ME 04103 (207) 221-6342

CLIENT:

EAST BROWN COW 100 COMMERCIAL ST #306 PORTLAND, ME 04101

PROJECT ADDRESS:

FORE STREET PARKING GARAGE 427 FORE STREET PORTLAND, ME 04101

SYSTEM TYPE:

190.40 KWDC PHOTOVOLTAIC ARRAY



DESIGNED BY:	LB
REVISION:	0
Print Size:	7" x "
SCALE:	

FEBRUARY 7, 2017

EQUIPMENT SPECIFICATIONS

DWG NUMBER: E02

DATE:

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CLIENT:

EAST BROWN COW 100 COMMERCIAL ST #306 PORTLAND, ME 04101

PROJECT ADDRESS:

FORE STREET PARKING GARAGE 427 FORE STREET PORTLAND, ME 04101

SYSTEM TYPE:

190.40 кW_{DC} Рнотоvoltaic Array



DESIGNED BY:	LB
REVISION:	0
Print Size:	7" x "
SCALE:	I" = 50'
DATE:	February 7, 2017

SITE MAP

DWG NUMBER:

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