



142 PRESUMPCOT STREET  
 PORTLAND, ME 04103  
 (207) 221-6342

CUSTOMER NAME:

MAINE HISTORICAL SOCIETY  
 1000 RIVERSIDE STREET  
 PORTLAND, ME 04103

SYSTEM TYPE:

111.69 kW<sub>DC</sub>  
 GRID TIED PHOTOVOLTAIC ARRAY

DESIGNED BY: LB  
 DATE: DECEMBER 19, 2016  
 REV. 0

EQUIPMENT SPECIFICATIONS

E02

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THIS DIAGRAM IS PROVIDED AS A SERVICE AND IS BASED ON THE UNDERSTANDING OF THE INFORMATION SUPPLIED. IT IS SUBJECT TO CHANGE BASED ON ACTUAL CONDITIONS, APPLICABLE EDITION OF THE NATIONAL ELECTRIC CODE, AND LOCAL GOVERNMENTAL AUTHORITIES.

MODULE SPECIFICATIONS

LG 365W LG365N2W-B3

STC RATING	365.00 W
V <sub>MP</sub>	38.6 V
I <sub>MP</sub>	9.46 V
V <sub>OC</sub>	48.4 V
I <sub>SC</sub>	9.89 A
TEMP COEFF. V <sub>OC</sub> [%/°C]	-0.30%

INVERTER SPECIFICATIONS

SOLAREGE 33.3kW SE33.3K-US

NOMINAL AC RATING [W]	33300.0 W
MAX INPUT V <sub>DC</sub>	980.0 V
NOMINAL V <sub>AC</sub> (L-L)	480.0 V
MAX OUTPUT CURRENT	40.0 A
CEC EFFICIENCY	98.5%

MODULE-LEVEL DC OPTIMIZER SPECIFICATIONS

SOLAREGE P730

RATED INPUT DC POWER	730.0 W
MPPT RANGE V <sub>DC</sub>	12.5 TO 105 V
MAX INPUT V <sub>DC</sub>	125.0 V
MAX INPUT CURRENT	11.00 A
MAX OUTPUT V <sub>DC</sub>	85.0 V
MAX OUTPUT CURRENT	15.0 A
CEC EFFICIENCY	98.6%

ELECTRICAL DESIGN NOTES

- INSTALLATION SHALL COMPLY WITH NEC 2014 AND LOCAL CODES.
- ALL EQUIPMENT, COMPONENTS RATED FOR USE.
- ALL CONDUCTORS ARE COPPER UNLESS SPECIFIED OTHERWISE.
- SYSTEM-WIDE VOLTAGE DROP SHALL NOT EXCEED 5%.
- 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.
- WHERE CONDUIT RUNS ALONG ROOFTOP IT SHALL BE NOT LESS THAN 3" FROM THE ROOF SURFACE.
- INVERTER LOCATION: IN ELECTRICAL ROOM (LOCKED) ON WALL ADJACENT TO MAIN DISTRIBUTION PANEL AND SOLAR AC COMBINER PANEL.
- TRANSFORMER INSTALLATION SHALL COMPLY WITH NEC 450.3(B), 450.14, 240.4(F), 250.102(C)(I), 200.6(D), 250.30(A)(4)
- CONDUIT SIZES ARE CODE MINIMUM, AND MAY BE UPSIZED IN THE FIELD AS NECESSARY.