PV SYSTEM SPECIFICATIONS
1. PV MODULE: 24 x REC350 AA; 8.4kWdc
2. INVERTER: SE7600H-US
3. RACKING: UNIRAC w/QUICKMOUNT
4. ROOF TYPE: BARREL TILE
5. AZIMUTH: 270° 180° 90°

PV INSTALLATION OVERVIEW

ELECTRICAL
a. POINT OF CONNECTION: Supply (LST)
b. MAX INV OUTPUT CURRENT: 32A
c. PV AC DEDICATED OCP DEVICE RATING: 32A * 125% = 40A, 40A OCP
d. UTILITY AC DISCONNECT REQ'D: YES

STRUCTURAL
a. MAX ALLOWABLE SPACING BETWEEN ATTACH POINTS: 4FT
b. MIN. NUMBER OF ATTACHMENT POINTS: 69
c. WEIGHT PER ATTACHMENT POINT: 19.6LBS/ATTACH
d. PV DEAD LOAD: 2.99PSF
e. LENGTH OF RAIL REQUIRED: 224FT

GOVERNING BUILDING CODES
1. 2019 DENVER BUILDING CODE AMENDMENTS, DBCA
2. 2018 INTERNATIONAL RESIDENTIAL CODE, IRC
3. 2020 NATIONAL ELECTRICAL CODE, NEC
4. IEEE 1547
5. ASCE 7 MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES
6. UL STANDARDS
   6.1 RACKING - UL 2703
   6.2 PV MODULE - UL 1703
   6.3 INVERTER - UL 1741

DESIGN SPECIFICATIONS
1. AHU - Denver Building Department
2. UTILITY - Xcel
3. BUILDING RISK CATEGORY II
4. DESIGN WIND SPEED (ULT) - 115MPH
5. DESIGN SNOW LOAD - 35PSF
6. EXPOSURE CATEGORY - C
7. MEAN ROOF HEIGHT - 20FT
8. ROOF SLOPE - 23°
1. The warning sign(s) or label(s) shall comply with NEC 110.21(B).
2. Labels shall be suitable for the environment where they are installed.
3. Labels to be a minimum letter height of 3/8" and permanently affixed.
4. Labels shall also comply with the specific requirements of the authority having jurisdiction.

---

**PV System Specifications**

1. **PV Module:** 24 x REC350 AA; 8.4kWdc
2. **Inverter:** SE7600H-US
3. **Racking:** UNIRAC w/QUICKMOUNT
4. **Roof Type:** BARREL TILE
5. **Azimuth:** 270° 180° 90°
6. **Roof Slope:** 23°
Sheet Number and Title: R01 - MODULE Datasheet

PV SYSTEM SPECIFICATIONS

1. PV MODULE: 24 x REC350 AA; 8.4kWdc
2. INVERTER: SE7600H-US
3. RACKING: UNIRAC w/QUICKMOUNT
4. ROOF TYPE: BARREL TILE
5. AZIMUTH: 270° 180° 90°
6. ROOF SLOPE: 23°

VALUED STANDARD TEST CONDITIONS (STC): AM 1.5G, 1000W/m², 25°C, 1000µA/W, temperature 25°C. The performance of modules exposed to leaner conditions or higher temperatures is expected to be lower.

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8378 Foxtail Loop
Pensacola, FL 32526
D. Chad Godwin, PE
Chad@godwineng.com

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Single Phase Inverter with HD-Wave Technology
for North America

Optimized installation with HD-Wave Technology

- Specifically designed to work with power optimizers
- Extremely small
- Record-breaking efficiency
- Fixed voltage inverter for longer strings
- Integrated arc fault protection and rapid shutdown for NEC 2014 and 2017, per article 690.11 and 690.12
- UL1741 SA certified, for CPCU Rule 21 grid compliance
- Optional/Revenue grade data, ANSI C12.20 Class 0.5 (0.5% accuracy)

solaredge.com

INVERTERS

Output

<table>
<thead>
<tr>
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<tr>
<td>AC Output Power (Max.)</td>
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<tr>
<td>Nominal Efficiency</td>
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</tr>
</tbody>
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Additional Features
- 8KV surge, Dual step-up, Overload (150 current) over 1 hour
- String Communication Interfaces: Ethernet, RS-232, RS-485

Rack Mounting: 1 U

RoHS

Designed and Engineered in the USA

Godwin Engineering and Design, LLC
8378 Foxtail Loop
Pensacola, FL 32526
D. Chad Godwin, PE
Chad@godwineng.com

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Project Info
PHOTON BROTHERS
7705 W 108th Ave
Westminster, CO 80021

Project Location:
ADAM BETKOWSKI RESIDENCE
635 N Williams St.
Denver, CO 80221
(303) 818-8386
Zetazuela@aol.com

Panor Number: 0004-23-014-000
Assessor Phone #: (720) 865-2700

PV SYSTEM SPECIFICATIONS

1. PV Modules: 24 x REC350 AA; 8.4kWdc
2. Inverter: SE7600H-US
3. Racking: UNIRAC with QUICKMOUNT
4. Roof Type: BARREL TILE
5. Azimuth: 270° 180° 90°
6. Roof Slope: 23°

INVERTER DATASHEET

12-25 Year Warranty

SolarEdge Technologies, Inc.
16355 S. Western Ave.
Oceanside, CA 92057

File Name: R02_INVERTER_SE-H.DWG
Sheet Number and Title: R02 - INVERTER DATASHEET
Sheet Size: ANSI full bleed B (17.00 x 11.00 inches)
Drawing History:

Sheet 1

Drawing

Date

 revision

04/30/21 7:59 PM R02

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PV power optimization at the module-level

- Specifically designed to work with SolarEdge inverters
- Up to 25% more energy
- Superior efficiency (99.5%)
- Mitigates all types of module mismatch losses, from manufacturing tolerance to partial shading
- Flexible system design for maximum space utilization

Power Optimizer
For North America
P320 / P340 / P370 / P400 / P405 / P505

OPTIMIZER DATASHEET

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1. PV MODULE: 24 x REC350 AA; 8.4kWdc
2. INVERTER: SE7600H-US
3. RACKING: UNIRAC w/QUICKMOUNT
4. ROOF TYPE: BARREL TILE
5. AZIMUTH: 270° 180° 90°
6. ROOF SLOPE: 23°

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PV SYSTEM SPECIFICATIONS

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File Name:  R02A OPTIMIZER DATASHEET.DWG
Sheet Number and Title: R03 - OPTIMIZER DATASHEET
Sheet Size: ANSI full bleed B (17.00 x 11.00 Inches)
Drawing History:

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Contractor Info
PHOTON BROTHERS
7705 W 108th Ave
Westminster, CO 80021

---

Project Location:
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635 N Williams St.
Denver, CO 80218
(303) 818-8386
Zeliauskaite@aol.com

---

Panor Number: 00024-23-014-000
Assessor Phone #: (720) 865-2700
SOLARMount defined the standard in solar racking. New enhancements are designed to get installers off the roof faster than ever before. Components are pre-assembled and optimized to reduce installation steps and save labor time. Our new grounding & bonding process eliminates copper wire and grounding straps to reduce costs. Utilize the microinverter mount with a wire management clip for an easier installation.

UNIRAC

OPTIMIZED COMPONENTS
INTEGRATED BONDING & PRE-ASSEMBLED PARTS
Components are pre-assembled and packaged in modular cartons making easy task for them to use. Our new bonding process eliminates copper wire and grounding straps to reduce costs. Utilize the microinverter mount with a wire management clip for an easier installation.

VERSATILITY
ONE PRODUCT - MANY APPLICATIONS
Qualify for rebates with the cutting-edge racking style. Change module orientation to parent or randomly. Module spacing, layout options of framed modules on flat, sloped to those without slop, available to roll, free and deck mounted brackets to suit your projects financial and aesthetic requirements.

AUTOMATED DESIGN TOOL
DESIGN PLATFORM AT YOUR SERVICE
Our cloud-based software suite provides an easy-to-use and powerful design tool that streamlines the process of designing a complete solar mounting system. Our tools for creating your system, review performance, and assist in making informed purchasing choices. You will enjoy the ability to design projects with confidence, all the needed materials and part numbers to deliver a system, assets and cost plan.

UNIRAC CUSTOMER SERVICE MEANS THE HIGHEST LEVEL OF PRODUCT SUPPORT

TECHNICAL SUPPORT
UNIRAC’s technical support team is dedicated to answering your questions & addressing issues in real time. For online tools of resources, including engineering reports, training sessions, and technical data sheets, simply streamlining your permitting and proposal planning processes.

CERTIFIED QUALITY PROVIDER
UNIRAC is the only UL Listed and Certified Mechanical Clamping System for Classification.

BANKABLE WARRANTY
As a BIPV Group Company, UNIRAC has the financial strength to back our products and reduce your risk. These pieces of solar racking, are enabling product of exceptional quality. UNIRAC warrants is covered by a 20 years limited product warranty and a 5 year limited finish warranty.
PV SYSTEM SPECIFICATIONS
1. PV MODULE: 24 x REC350 AA; 8.4kWdc
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AVAILABLE IN MILL, AND BLACK FINISHES

Quick Mount PV

TITLE:
QMTR-W4: TILE REPLACEMENT, W-TILE, 4" POST

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRAC: ±1/8
TWO PLACE DECIMAL: ±.19
THREE PLACE DECIMAL: ±.024

SIZE
A

DRAWN BY:
6/9/2017
3

REV

DATE:

SCALE: 1:5

WEIGHT: 2.93

SHET 1 OF 1

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