

LG NeON™ 2 **LG330N1C-A5**

60 cell

LG's new module, LG NeON™ 2, adopts Cello technology. Cello technology replaces 3 busbars with 12 thin wires to enhance power output and reliability. LG NeON™ 2 demonstrates LG's efforts to increase customer's values beyond efficiency. It features enhanced warranty, durability, performance under real environment, and aesthetic design suitable for roofs.



Enhanced Performance Warranty

LG NeON™ 2 has an enhanced performance warranty. The annual degradation has fallen from -0.6%/yr to -0.55%/yr. Even after 25 years, the cell guarantees 1.2% more output than the previous LG NeON™ 2 modules.



High Power Output

Compared with previous models, the LG NeON™ 2 has been designed to significantly enhance its output efficiency, thereby making it efficient even in limited space.



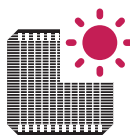
Aesthetic Roof

LG NeON™ 2 has been designed with aesthetics in mind; thinner wires that appear all black at a distance. The product may help increase the value of a property with its modern design.



Outstanding Durability

With its newly reinforced frame design, LG has extended the warranty of the LG NeON™ 2 for an additional 2 years. Additionally, LG NeON™ 2 can endure a front load up to 6000 Pa, and a rear load up to 5400 Pa.



Better Performance on a Sunny Day

LG NeON™ 2 now performs better on sunny days thanks to its improved temperature coefficient.



Double-Sided Cell Structure

The rear of the cell used in LG NeON™ 2 will contribute to generation, just like the front; the light beam reflected from the rear of the module is reabsorbed to generate a great amount of additional power.

About LG Electronics

LG Electronics is a global player who has been committed to expanding its capacity, based on solar energy business as its future growth engine. We embarked on a solar energy source research program in 1985, supported by LG Group's rich experience in semi-conductor, LCD, chemistry, and materials industry. We successfully released the first Mono X® series to the market in 2010, which were exported to 32 countries in the following 2 years, thereafter. In 2013, LG NeON™ (previously known as Mono X® NeON) won "Intersolar Award", which proved LG is the leader of innovation in the industry.

Mechanical Properties

Cells	6 x 10
Cell Vendor	LG
Cell Type	Monocrystalline / N-type
Cell Dimensions	161.7 x 161.7 mm / 6 inches
# of Busbar	12 (Multi Wire Busbar)
Dimensions (L x W x H)	1686 x 1016 x 40 mm 66.38 x 40 x 1.57 inch
Front Load	6000Pa
Rear Load	5400Pa
Weight	18 kg
Connector Type	MC4
Junction Box	IP68 with 3 Bypass Diodes
Cables	1000 mm x 2 ea
Glass	High Transmission Tempered Glass
Frame	Anodized Aluminium

Certifications and Warranty

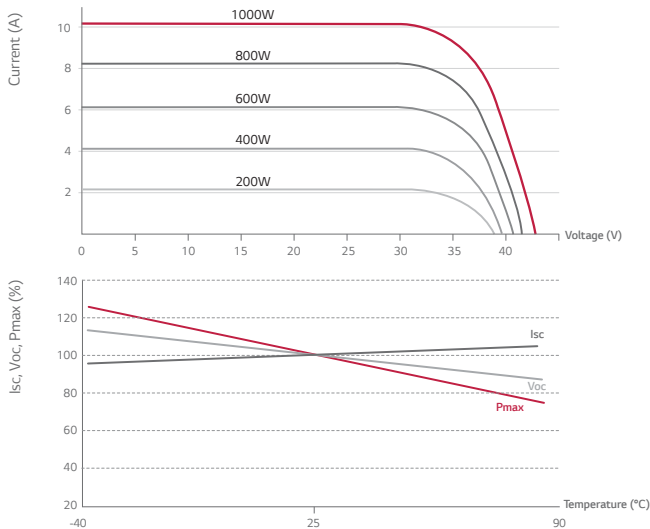
Certifications	IEC 61215, IEC 61730-1/-2 UL 1703 IEC 61701 (Salt mist corrosion test) IEC 62716 (Ammonia corrosion test) ISO 9001
Module Fire Performance (USA)	Type 1
Fire Rating (CANADA)	Class C (ULC / ORD C1703)
Product Warranty	12 years
Output Warranty of Pmax	Linear warranty**

** 1) 1st year : 98%, 2) After 2nd year : 0.55% annual degradation, 3) 25 years : 84.8%

Temperature Characteristics

NOCT	45 ± 3 °C
Pmpp	-0.37%/°C
Voc	-0.27%/°C
Isc	0.03 %/°C

Characteristic Curves



Electrical Properties (STC *)

Module	LG330N1C-A5
Maximum Power (Pmax)	330
MPP Voltage (Vmpp)	33.7
MPP Current (Impp)	9.8
Open Circuit Voltage (Voc)	40.9
Short Circuit Current (Isc)	10.45
Module Efficiency	19.3
Operating Temperature	-40 ~ +90
Maximum System Voltage	1,000
Maximum Series Fuse Rating	20
Power Tolerance (%)	0 ~ +3

* STC (Standard Test Condition): Irradiance 1,000 W/m², Ambient Temperature 25 °C, AM 1.5

* The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion.

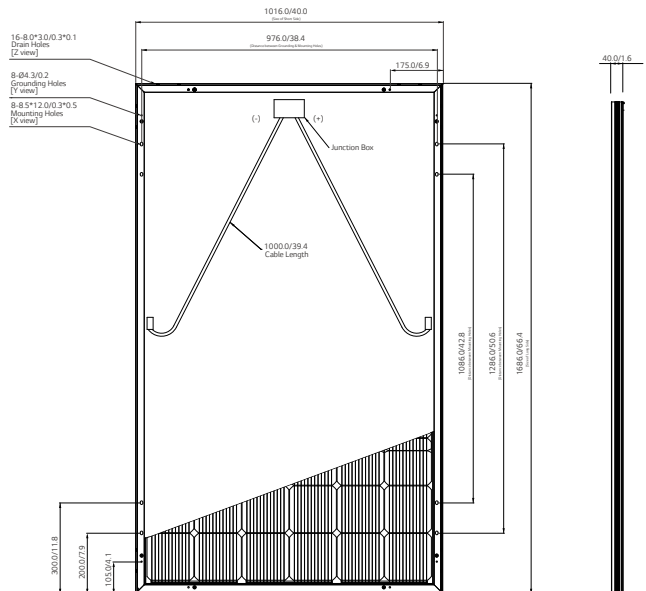
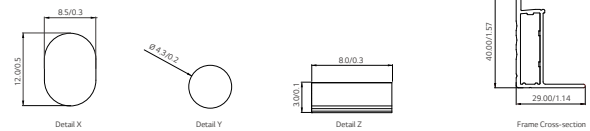
* The Typical change in module efficiency at 200W/m² in relation to 1000W/m² is -2.0%.

Electrical Properties (NOCT*)

Module	LG330N1C-A5
Maximum Power (Pmax)	243
MPP Voltage (Vmpp)	31.2
MPP Current (Impp)	7.81
Open Circuit Voltage (Voc)	38.1
Short Circuit Current (Isc)	8.41

* NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², ambient temperature 20 °C, wind speed 1m/s

Dimensions (mm/in)



North America Solar Business Team
 LG Electronics U.S.A. Inc
 1000 Sylvan Ave, Englewood Cliffs, NJ 07632
 Contact: lg.solar@lge.com
 www.lgsolarusa.com

Product specifications are subject to change without notice.

Copyright © 2017 LG Electronics. All rights reserved.
 01/01/2017

Innovation for a Better Life



DESCRIPTION:
SNAPNRACK, COMP FLASH TRACK KIT

PART NUMBER(S):
SEE BELOW

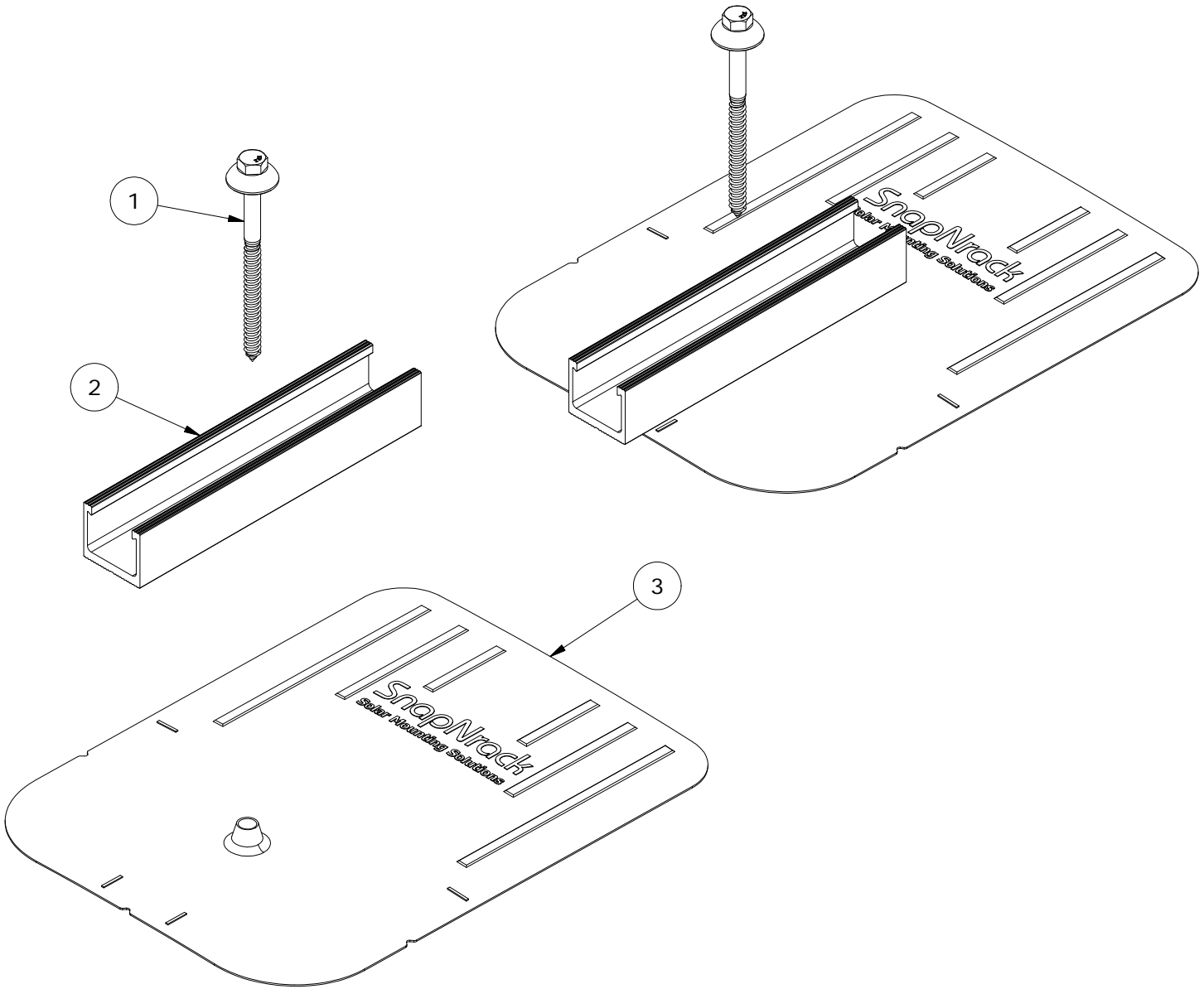
DRAWN BY:
 mwatkins

REVISION:
B

SnapNrack™
 Solar Mounting Solutions

595 MARKET STREET, 29TH FLOOR • SAN FRANCISCO, CA 94105 USA
 PHONE (415) 580-6900 • FAX (415) 580-6902

THE INFORMATION IN THIS DRAWING IS CONFIDENTIAL AND PROPRIETARY. ANY REPRODUCTION, DISCLOSURE, OR USE THEREOF IS PROHIBITED WITHOUT THE WRITTEN CONSENT OF SUNRUN SOUTH LLC.



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	242-92266	SNAPNRACK, UMBRELLA LAG, TYPE 3, 4IN, SS
2	1	232-04060	SNAPNRACK, FLASH TRACK PRC, CONE HOLE, 7-1/2IN, BLACK
3	1	232-01375, 232-01376	SNAPNRACK, COMP FLASHING, 9IN X 12IN, SILVER / BLACK ALUM

MATERIALS:	6000 SERIES ALUMINUM, STAINLESS STEEL, RUBBER
DESIGN LOAD (LBS):	306 UP, 372 DOWN, 253 SIDE (LANDSCAPE)
ULTIMATE LOAD (LBS):	N/A
TORQUE SPECIFICATION:	N/A LB-FT
CERTIFICATION:	UL 2703, FILE E359313
WEIGHT (LBS):	0.83 - 1.06

DESCRIPTION:

SNAPNRACK, COMP FLASH TRACK KIT

DRAWN BY:

mwatkins

REVISION:

B

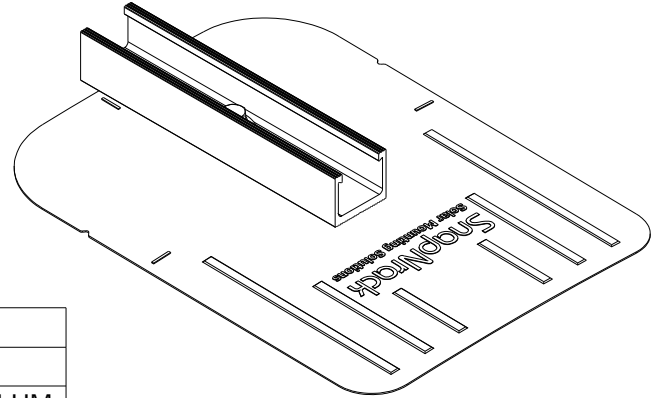
SnapNrack™
Solar Mounting Solutions

PART NUMBER(S):

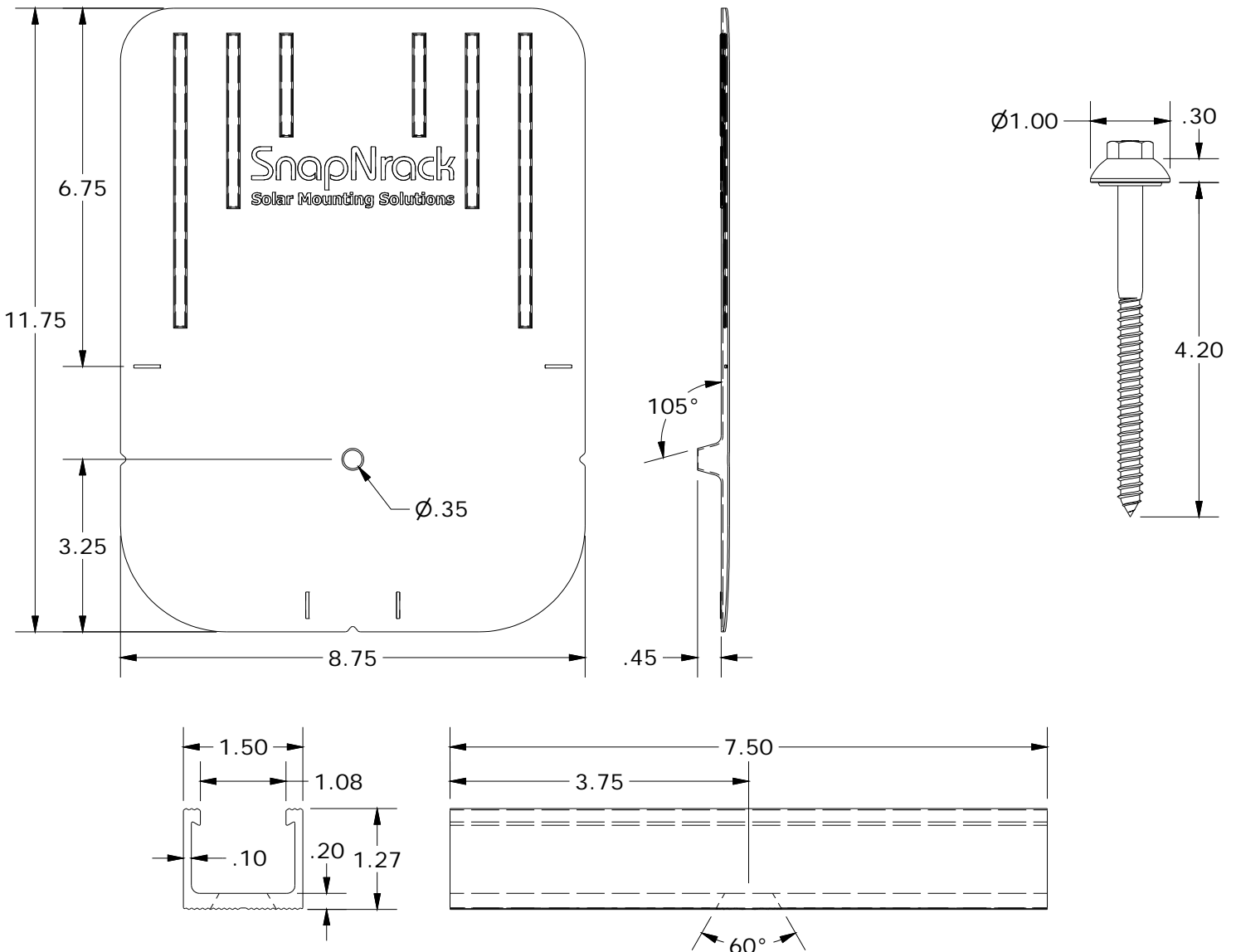
SEE BELOW

595 MARKET STREET, 29TH FLOOR • SAN FRANCISCO, CA 94105 USA
PHONE (415) 580-6900 • FAX (415) 580-6902

THE INFORMATION IN THIS DRAWING IS CONFIDENTIAL AND PROPRIETARY. ANY REPRODUCTION, DISCLOSURE, OR USE THEREOF IS PROHIBITED WITHOUT THE WRITTEN CONSENT OF SUNRUN SOUTH LLC.

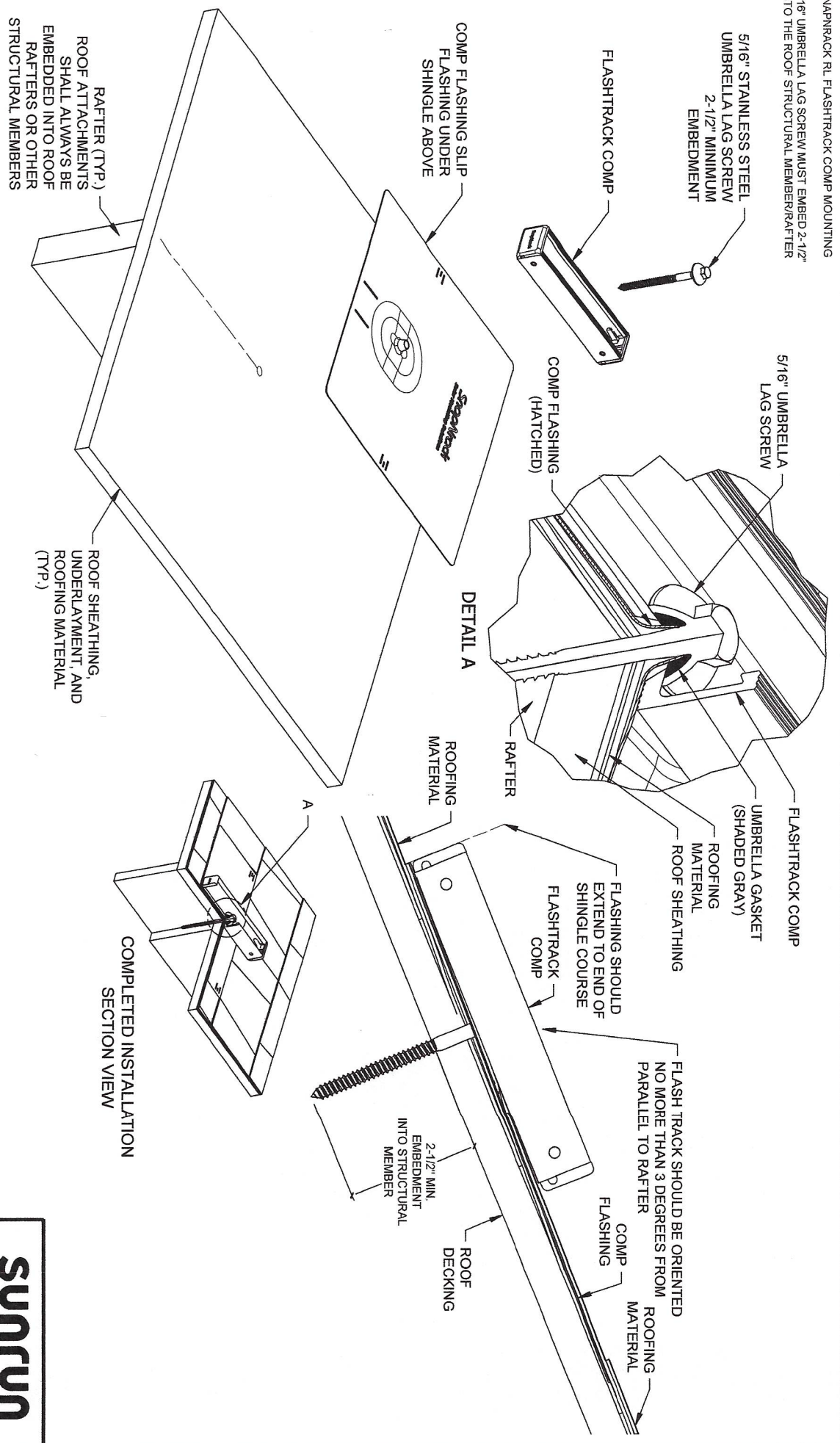


COMP FLASHING PROPERTIES	
SKU	DESCRIPTION
232-01375	COMP FLASHING, 9" X 12", BLACK ALUM
232-01376	COMP FLASHING, 9" X 12", SILVER ALUM



ALL DIMENSIONS IN INCHES

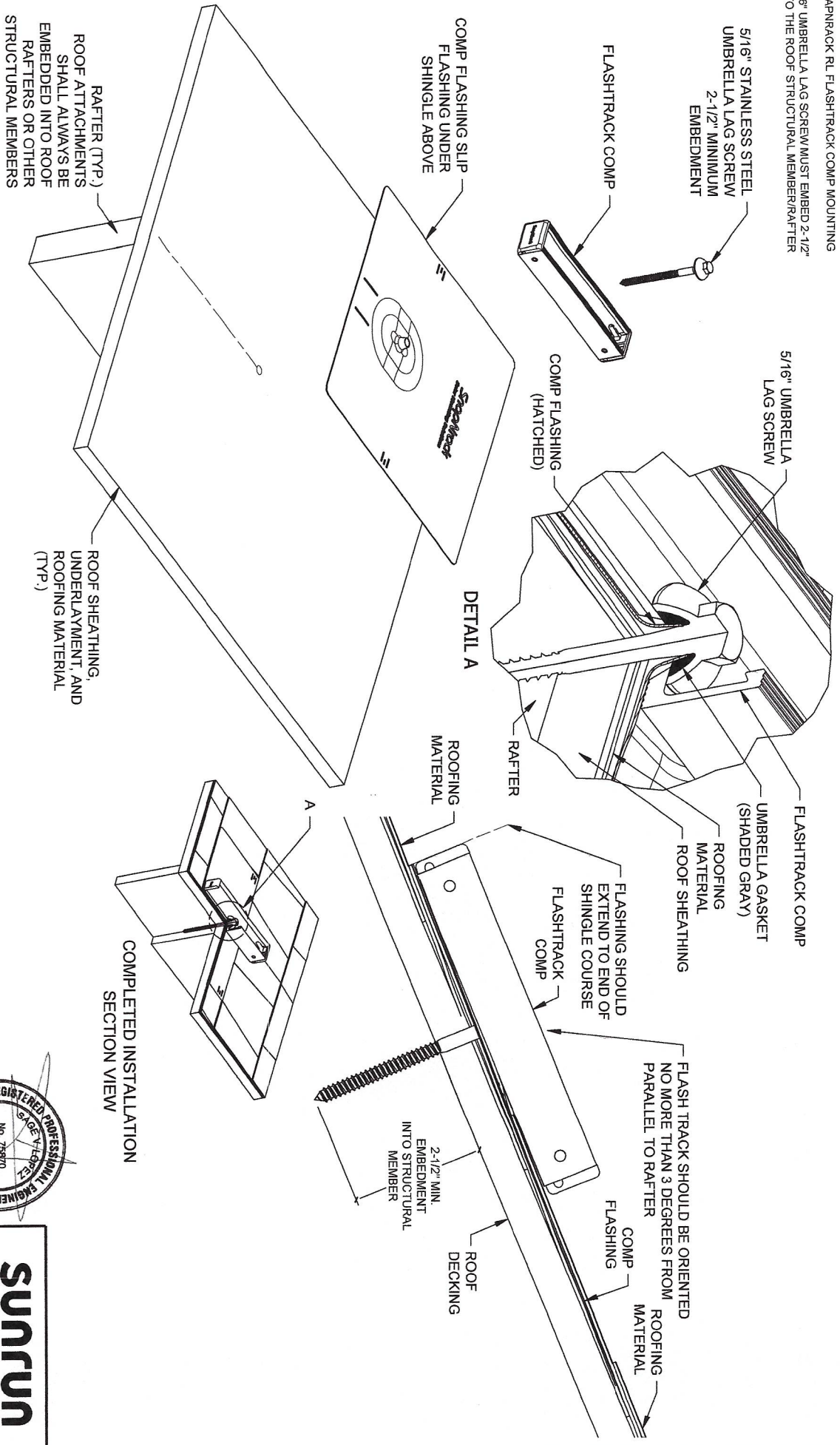
SNAPRACK RL FLASHTRACK COMP MOUNTING
 5/16" UMBRELLA LAG SCREW MUST EMBED 2-1/2"
 INTO THE ROOF STRUCTURAL MEMBER/RAFTER



PENETRATION DETAIL, FLASHTRACK COMP - RAILLESS 1.5

SUNRUN	
REV DATE	2/28/2018
PAGE SNAPRACK MOUNTING DETAIL	

SNAPRACK RL FLASHTRACK COMP MOUNTING
 5/16" UMBRELLA LAG SCREW MUST BE EMBEDDED 2-1/2"
 INTO THE ROOF STRUCTURAL MEMBER/RAFTER



PENETRATION DETAIL, FLASHTRACK COMP - RAILLESS 1.5



SUNRUN

REV DATE 2/28/2018

PAGE SNAPRACK MOUNTING DETAIL

SNAPRACK RL SYSTEM DETAILS

TORQUE ALL HARDWARE TO THE FOLLOWING VALUES:

A AND B MOUNT HARDWARE*: 12-14 FT-LBS

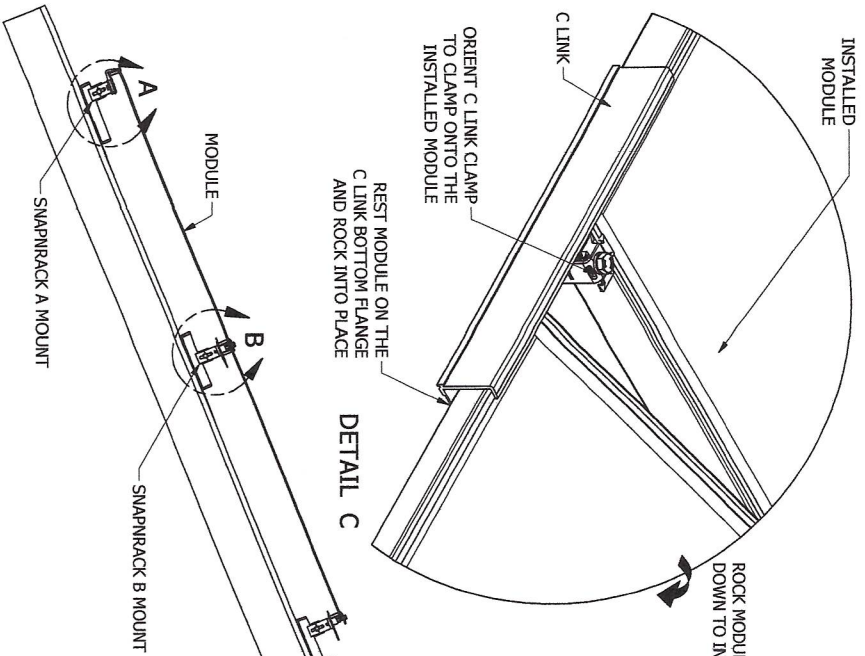
*FOR HANWHA, B MOUNT CLAMP BOLT: 16 FT-LBS

C LINK BOLT: 9-10 FT-LBS

FOR UNEVEN ROOF SURFACES, EACH MOUNT HAS 1-1/2" OF LEVELING CAPABILITY IN 1/12" INCREMENTS

USE 242-92254 FLASHTRACK SPACER FOR AN ADDITIONAL 1-1/4" OF LEVELING

*B MOUNT CLAMP BOLT ONLY CLAMPS THE MODULE BELOW. THE MODULE ABOVE THE MOUNT (UP ROOF) IS SECURED WITH A SLEEVE CONNECTION.



SnapRack
Solar Mounting Solutions

Sunrun South LLC
588 MARKET STREET, SUITE 400, SAN JOSE, CA 95128 USA
PH: 415.436.1000 • FAX: 415.436.1002
HIRE OR PURCHASE IN THE US ONLY. CONTACT US FOR EXPORTS. ANY REPRODUCTION, DISTRIBUTION, OR USE WITHOUT PERMISSION WITHOUT THE WRITTEN CONSENT OF SUNRUN SOUTH LLC.

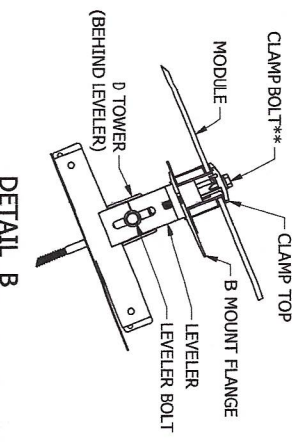
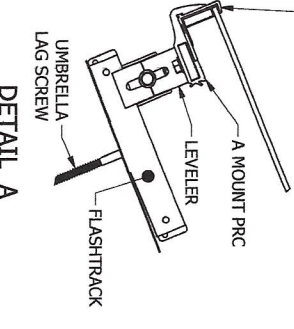
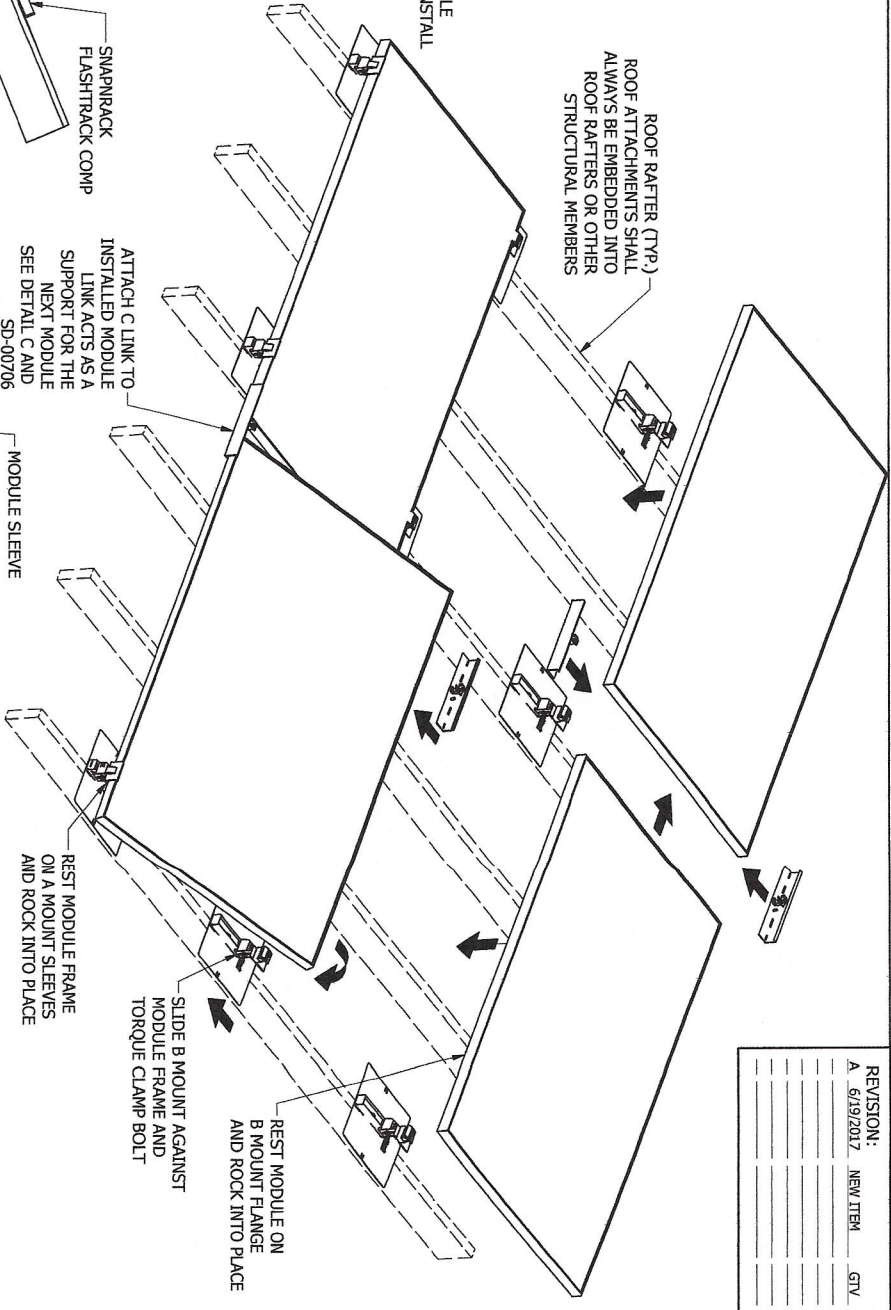
DESIGNER: G.McPheeters
DRAFTER: G.Viscuso
APPROVED BY: G.McPheeters

SCALE: NTS
DATE: 6/19/2017

PART NUMBER: SD-00704

DESCRIPTION: SYSTEM DETAIL, HARDWARE

REV A



REVISION:	DATE	BY	CHKD
A	6/19/2017	NEW ITEM	GTV

SNAPRACK RL C LINK

STRUCTURALLY CONNECTS TWO MODULES TOGETHER IN A ROW

C LINK SLEEVES THE MODULE FRAME

C LINKS MATCH MODULE FRAME HEIGHT

C LINK CLAMP FASTENS THE LINK TO THE MODULE FRAME(S)

THE CLAMP ALIGNS MODULES WITH A 3/4" GAP BETWEEN COLUMNS

BONDING TEETH ON THE CLAMP TOP RESIST MODULE MOVEMENT

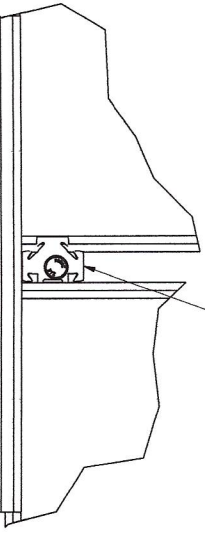
DRAIN HOLES ALLOW WATER TO DRAIN FROM THE MODULE FRAME

C LINKS CONNECT TWO ADJACENT MODULES TOGETHER IN THE SAME ROW

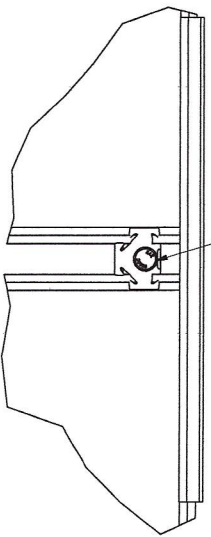
LINKS MUST BE INSTALLED ON BOTH SIDES OF THE MODULE (REFER TO SD-00706) WHEN ADJACENT MODULES ARE IN SAME ORIENTATION

C LINKS SHALL BE TIGHT AGAINST THE MODULE FRAME WHEN INSTALLED PROPERLY

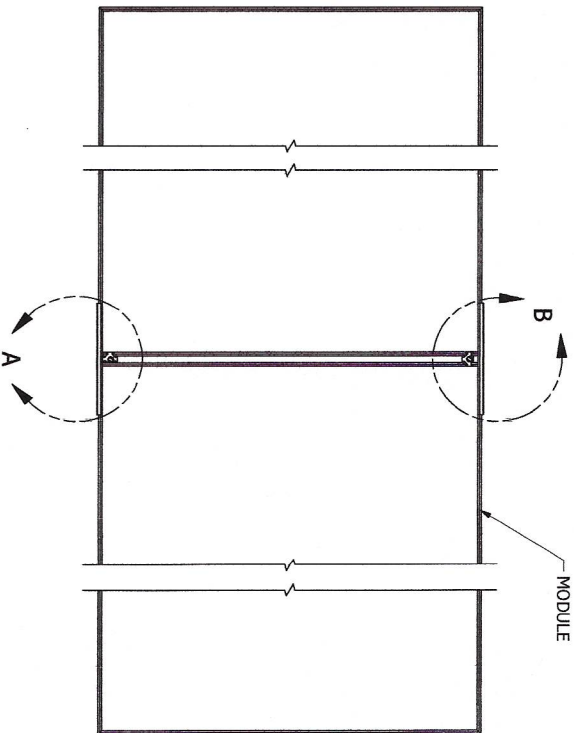
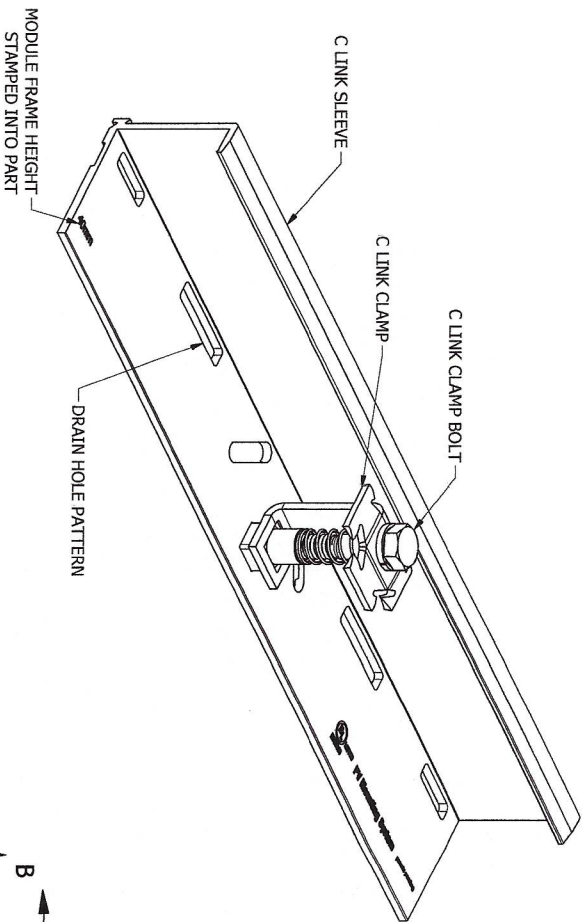
LOOSEN CLAMP BOLT AND PULL CLAMP UP TO CHANGE CLAMP ORIENTATION



DETAIL A



DETAIL B



REVISION:	NEW ITEM	GTV
A	6/19/2017	



Sunrun South LLC
 888 MARKET STREET, SUITE 100, SAN JOSE, CA 95128 USA
 PHONE (415) 650-0000 • FAX (415) 500-0002
 THE INFORMATION IN THIS DRAWING IS CONFIDENTIAL AND PROPRIETARY. ANY REPRODUCTION, DISCLOSURE, OR USE THEREOF IS PROHIBITED WITHOUT THE WRITTEN CONSENT OF SUNRUN SOUTH LLC.

DESIGNER: G.McPheeters
 DRAFTER: G.Viscuso
 APPROVED BY: G.McPheeters

SCALE: NTS
 DATE: 6/19/2017

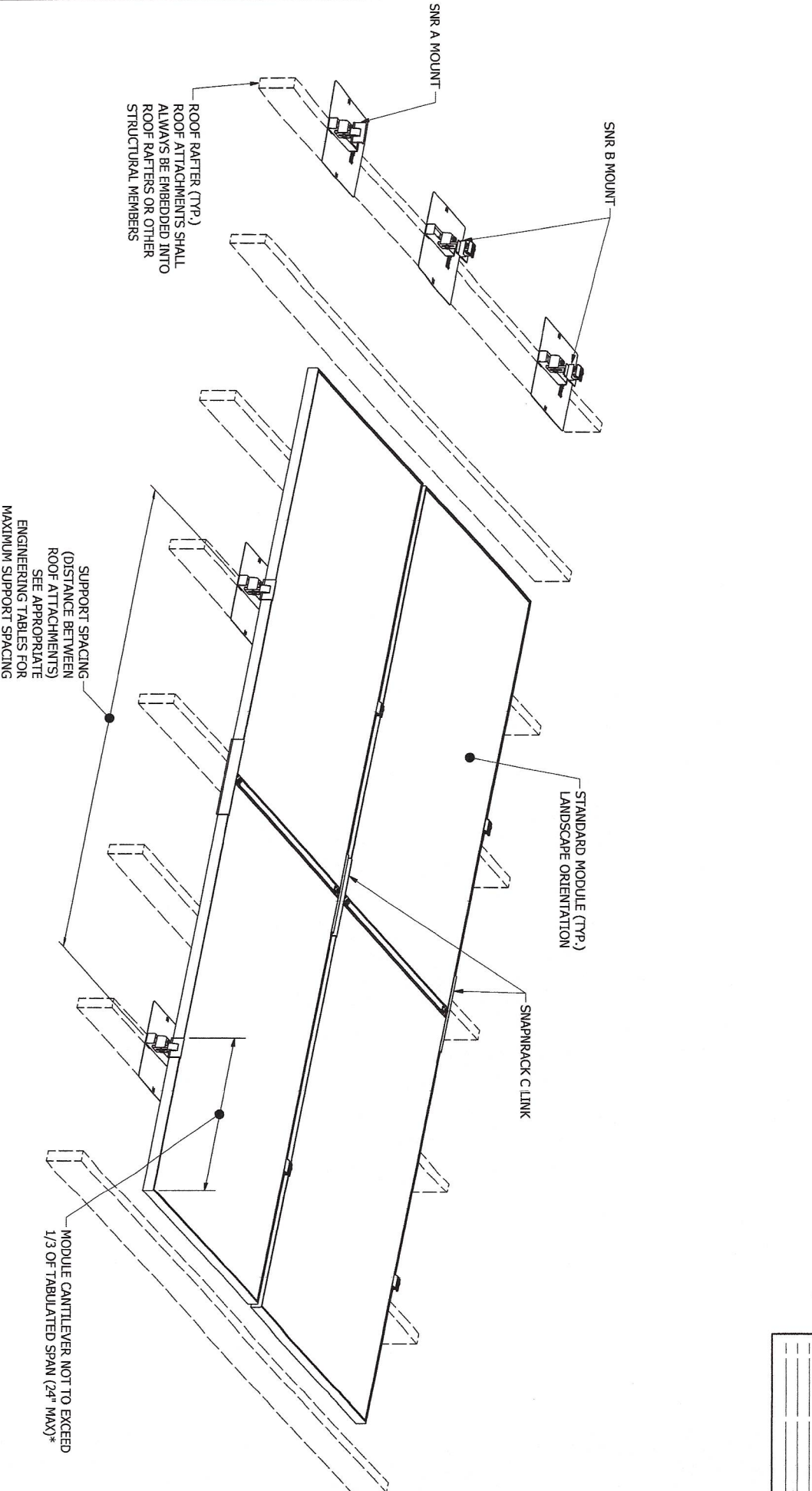
PART NUMBER: SD-00706

DESCRIPTION:

SYSTEM DETAIL, C LINK

REV
A

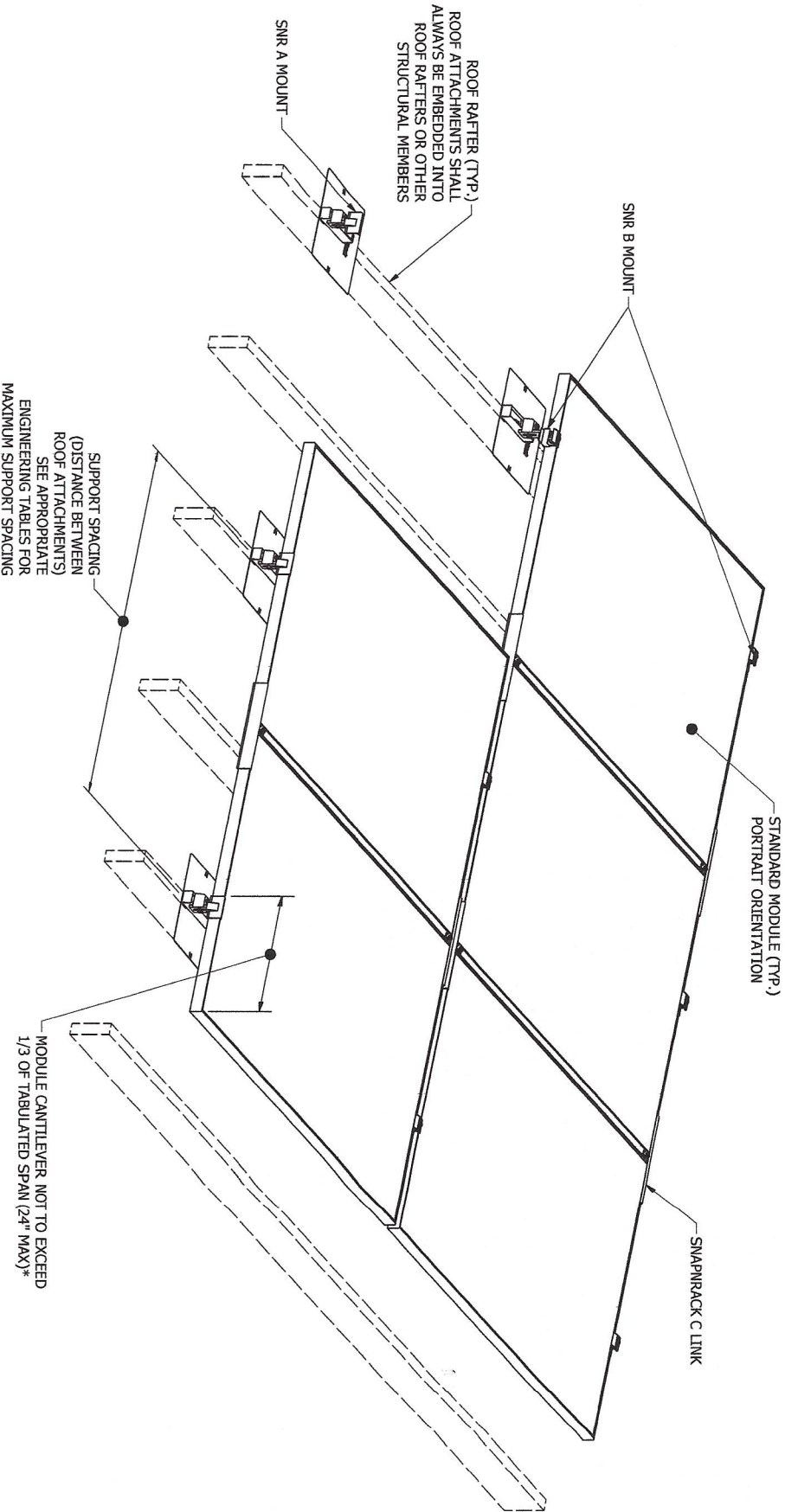
SNAPRACK RL SOLAR MOUNTING SOLUTION INSTALLED IN LANDSCAPE
 *MODULE CANTILEVER IS THE DISTANCE BETWEEN THE MODULE EDGE AND THE CENTERLINE OF THE FLASH TRACK



REVISION:	DATE	BY	APP'D
A	6/19/2017	NEW ITEM	GTV

	Sunrun South LLC <small>595 MARKET STREET, SUITE 200, SAN FRANCISCO, CA 94103 USA PHONE: (415) 550-0000 • FAX: (415) 550-0002 THE INFORMATION IN THIS DRAWING IS CONFIDENTIAL AND PROPRIETARY. ANY REPRODUCTION, DISSEMINATION, OR USE, HEREIN, IS PROHIBITED WITHOUT THE WRITTEN CONSENT OF SUNRUN SOUTH LLC.</small>	DESIGNER: <u>G. McPheeters</u> DRAFTER: <u>G. Viscuso</u> APPROVED BY: <u>G. McPheeters</u>	SCALE: <u>NTS</u> DATE: <u>6/19/2017</u>	PART NUMBER: <u>SD-00702</u>	DESCRIPTION: <u>SYSTEM LAYOUT, LANDSCAPE</u>	REV <u>A</u>
--	---	---	---	---------------------------------	---	-----------------

SNAPRACK RL SOLAR MOUNTING SOLUTION INSTALLED IN PORTRAIT
 *MODULE CANTILEVER IS THE DISTANCE BETWEEN THE MODULE EDGE AND THE
 CENTERLINE OF THE FLASH TRACK



REVISION:	DATE	DESCRIPTION	BY
A	6/19/2017	NEW ITEM	GTV

SnapRack™
 Solar Mounting Solutions

Sunrun South LLC
 866 MARKET STREET, 2ND FLOOR • SAN FRANCISCO, CA 94102 USA
 PHONE (415) 500-0000 • FAX (415) 500-0002
 THE INFORMATION IN THIS DRAWING IS CONFIDENTIAL AND PROPRIETARY. ANY REPRODUCTION, DISSEMINATION, OR USE THEREOF IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF SUNRUN SOUTH LLC.

DESIGNER: G.McPheeters
 DRAFTER: G.Viscuso
 APPROVED BY: G.McPheeters

SCALE: NTS
 DATE: 6/19/2017

PART NUMBER: SD-00703

DESCRIPTION: SYSTEM LAYOUT, PORTRAIT

REV
A

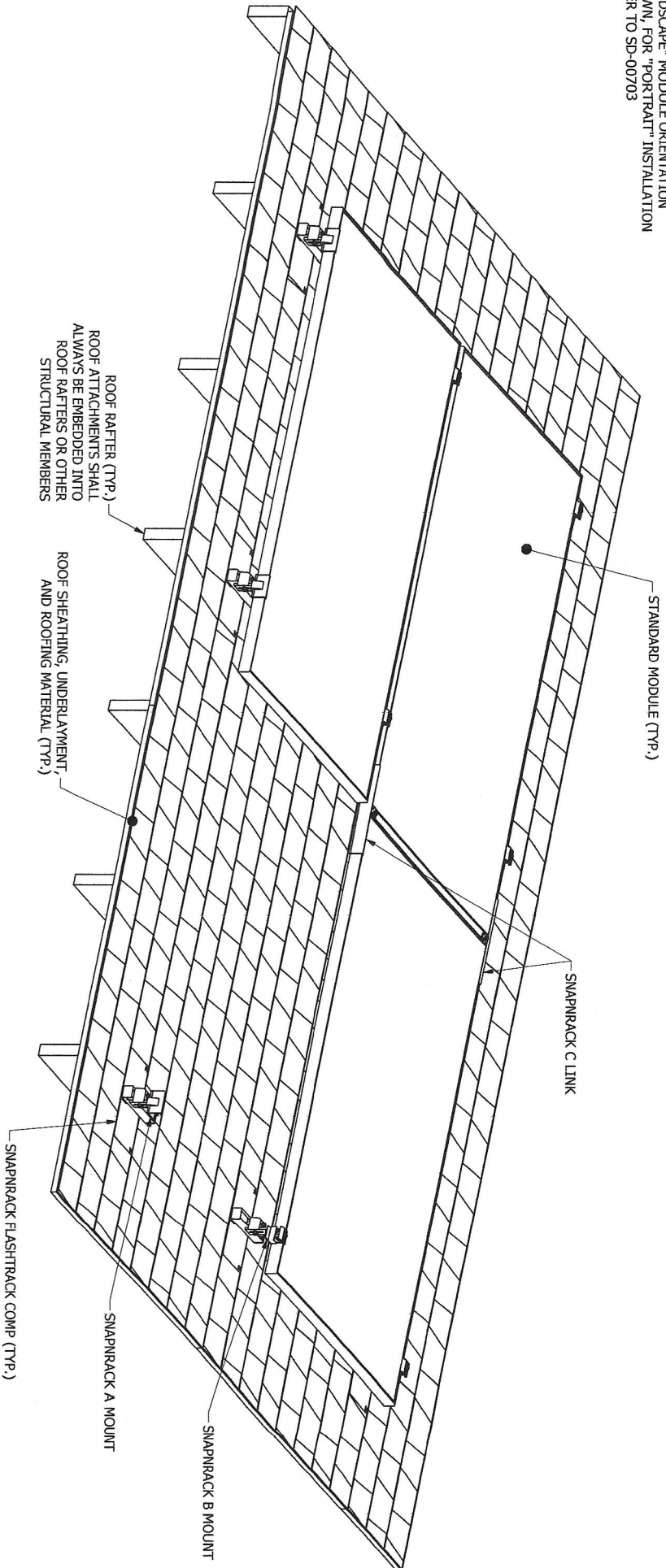
SNAPRACK RL SOLAR MOUNTING SOLUTION INSTALLED ON COMPOSITION SHINGLE ROOF

ROOF ATTACHMENT: SNAPRACK FLASHTRACK COMP

MODULE ATTACHMENT: SNAPRACK A MOUNTS AND B MOUNTS

SNAPRACK C LINKS CONNECT MODULE FRAMES TOGETHER TO ACT AS A CONTINUOUS STRUCTURAL ELEMENT

"LANDSCAPE" MODULE ORIENTATION SHOWN, FOR "PORTRAIT" INSTALLATION REFER TO SD-00703



REVISION:	NEW ITEM	GTV
A	6/19/2017	



Sumrun South LLC
 866 MARKET STREET
 FRENCH CREEK, TEXAS 75426
 THE INFORMATION IN THIS DRAWING IS UNLESS OTHERWISE SPECIFIED, THE PROPERTY OF SUMRUN SOUTH LLC. WRITTEN CONSENT OF SUMRUN SOUTH LLC.

DESIGNER: G.McPheeters
 DRAFTER: G.Viscuso
 APPROVED BY: G.McPheeters

SCALE: NTS
 DATE: 6/19/2017

PART NUMBER: SD-00700

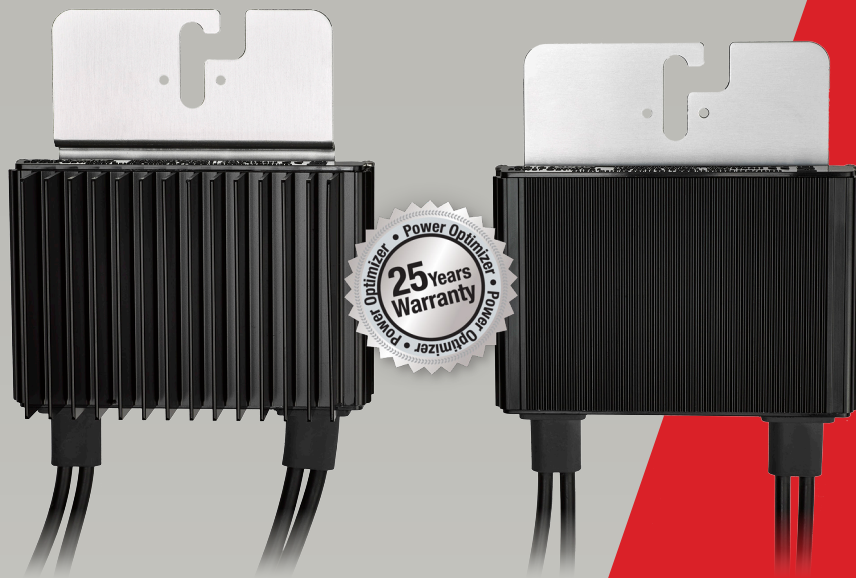
DESCRIPTION: SYSTEM OVERVIEW, FLASHTRACK COMP

REV
 A



Power Optimizer

P320 / P370 / P400 / P405 / P505



POWER OPTIMIZER

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
- Fast installation with a single bolt
- Next generation maintenance with module-level monitoring
- Compliant with arc fault protection and rapid shutdown NEC requirements (when installed as part of the SolarEdge system)
- Module-level voltage shutdown for installer and firefighter safety



Power Optimizer

P320 / P370 / P400 / P405 / P505

OPTIMIZER MODEL (typical module compatibility)	P320 (for high-power 60-cell modules)	P370 (for higher-power 60 and 72-cell modules)	P400 (for 72 & 96-cell modules)	P405 (for thin film modules)	P505 (for higher current modules)	
INPUT						
Rated Input DC Power ⁽¹⁾	320	370	400	405	505	W
Absolute Maximum Input Voltage (Voc at lowest temperature)	48	60	80	125	83	Vdc
MPPT Operating Range	8 - 48	8 - 60	8 - 80	12.5 - 105	12.5 - 83	Vdc
Maximum Short Circuit Current (Isc)	11		10.1		14	Adc
Maximum DC Input Current	13.75		12.63		17.5	Adc
Maximum Efficiency				99.5		%
Weighted Efficiency	98.8				98.6	%
Overvoltage Category				II		
OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING SOLAREEDGE INVERTER)						
Maximum Output Current				15		Adc
Maximum Output Voltage	60			85		Vdc
OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM SOLAREEDGE INVERTER OR SOLAREEDGE INVERTER OFF)						
Safety Output Voltage per Power Optimizer				1 ± 0.1		Vdc
STANDARD COMPLIANCE						
EMC				FCC Part15 Class B, IEC61000-6-2, IEC61000-6-3		
Safety				IEC62109-1 (class II safety), UL1741		
RoHS				Yes		
INSTALLATION SPECIFICATIONS						
Maximum Allowed System Voltage				1000		Vdc
Compatible inverters				All SolarEdge Single Phase and Three Phase inverters		
Dimensions (W x L x H)	128 x 152 x 28 / 5 x 5.97 x 1.1		128 x 152 x 36 / 5 x 5.97 x 1.42	128 x 152 x 50 / 5 x 5.97 x 1.96	128 x 152 x 59 / 5 x 5.97 x 2.32	mm / in
Weight (including cables)	630 / 1.4		750 / 1.7	845 / 1.9	1064 / 2.3	gr / lb
Input Connector				MC4 ⁽²⁾		
Output Wire Type / Connector				Double Insulated; MC4		
Output Wire Length	0.95 / 3.0		1.2 / 3.9			m / ft
Operating Temperature Range				-40 - +85 / -40 - +185		°C / °F
Protection Rating				IP68 / NEMA6P		
Relative Humidity				0 - 100		%

⁽¹⁾ Rated STC power of the module. Module of up to +5% power tolerance allowed.

⁽²⁾ For other connector types please contact SolarEdge

PV SYSTEM DESIGN USING A SOLAREEDGE INVERTER ⁽³⁾⁽⁴⁾	SINGLE PHASE HD-WAVE		SINGLE PHASE	THREE PHASE 208V	THREE PHASE 480V	
	P320, P370, P400 P405 / P505					
Minimum String Length (Power Optimizers)		8		10	18	
Maximum String Length (Power Optimizers)		25		25	50 ⁽⁵⁾	
Maximum Power per String		5700 (6000 with SE7600-US - SE11400- US)	5250	6000	12750	W
Parallel Strings of Different Lengths or Orientations				Yes		

⁽³⁾ For detailed string sizing information refer to: http://www.solaredge.com/sites/default/files/string_sizing_na.pdf.

⁽⁴⁾ It is not allowed to mix P405/P505 with P320/P370/P400/P600/P700/P800 in one string.

⁽⁵⁾ A string with more than 30 optimizers does not meet NEC rapid shutdown requirements; safety voltage will be above the 30V requirement





SolarEdge Single Phase Inverters

For North America

SE3000A-US / SE3800A-US / SE5000A-US / SE6000A-US /
SE7600A-US / SE10000A-US / SE11400A-US



INVERTERS

The best choice for SolarEdge enabled systems

- Specifically designed to work with power optimizers
- Superior efficiency (98%)
- Integrated arc fault protection and rapid shutdown for NEC 2014 and 2017, per article 690.11 and 690.12
- UL1741 SA certified, for CPUC Rule 21 grid compliance
- Small, lightweight and easy to install outdoors or indoors on provided bracket
- Built-in module-level monitoring
- Internet connection through Ethernet or Wireless
- Fixed voltage inverter for longer strings
- Optional – revenue grade data, ANSI C12.1



Single Phase Inverters for North America

SE3000A-US / SE3800A-US / SE5000A-US / SE6000A-US /
SE7600A-US / SE10000A-US / SE11400A-US

	SE3000A-US	SE3800A-US	SE5000A-US	SE6000A-US	SE7600A-US	SE10000A-US	SE11400A-US	
OUTPUT								
Nominal AC Power Output	3000	3800	5000	6000	7600	9980 @ 208V 10000 @ 240V	11400	VA
Max. AC Power Output	3300	4150	5400 @ 208V 5450 @ 240V	6000	8350	10800 @ 208V 10950 @ 240V	12000	VA
AC Output Voltage Min.-Nom.-Max. ⁽¹⁾ 183 - 208 - 229 Vac	-	-	✓	-	-	✓	-	
AC Output Voltage Min.-Nom.-Max. ⁽¹⁾ 211 - 240 - 264 Vac	✓	✓	✓	✓	✓	✓	✓	
AC Frequency Min.-Nom.-Max. ⁽¹⁾	59.3 - 60 - 60.5							Hz
Max. Continuous Output Current	12.5	16	24 @ 208V 21 @ 240V	25	32	48 @ 208V 42 @ 240V	47.5	A
GFDI Threshold	1							A
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes							Yes
INPUT								
Maximum DC Power (STC)	4050	5100	6750	8100	10250	13500	15350	W
Transformer-less, Ungrounded	Yes							
Max. Input Voltage	500							
Nom. DC Input Voltage	325 @ 208V / 350 @ 240V							
Max. Input Current ⁽²⁾	9.5	13	16.5 @ 208V 15.5 @ 240V	18	23	33 @ 208V 30.5 @ 240V	34.5	Adc
Max. Input Short Circuit Current	45							
Reverse-Polarity Protection	Yes							
Ground-Fault Isolation Detection	600k Ω Sensitivity							
Maximum Inverter Efficiency	97.7	98.2	98.3	98.3	98	98	98	%
CEC Weighted Efficiency	97.5	98	97 @ 208V 98 @ 240V	97.5	97.5	97 @ 208V 97.5 @ 240V	97.5	%
Nighttime Power Consumption	< 2.5					< 4		W
ADDITIONAL FEATURES								
Supported Communication Interfaces	RS485, RS232, Ethernet, ZigBee (optional)							
Revenue Grade Data, ANSI C12.1	Optional ⁽³⁾							
Rapid Shutdown - NEC 2014 and 2017 690.12	Automatic Rapid Shutdown upon AC Grid Disconnect ⁽⁵⁾							
STANDARD COMPLIANCE								
Safety	UL1741, UL1741 SA, UL1699B, CSA C22.2, Canadian AFCI according to T.I.L. M-07							
Grid Connection Standards	IEEE1547, Rule 21, Rule 14 (HI)							
Emissions	FCC part15 class B							
INSTALLATION SPECIFICATIONS								
AC output conduit size / AWG range	3/4" minimum / 16-6 AWG					3/4" minimum / 8-3 AWG		
DC input conduit size / # of strings / AWG range	3/4" minimum / 1-2 strings / 16-6 AWG					3/4" minimum / 1-3 strings / 14-6 AWG		
Dimensions with Safety Switch (HxWxD)	30.5 x 12.5 x 7.2 / 775 x 315 x 184					30.5 x 12.5 x 10.5 / 775 x 315 x 260		
Weight with Safety Switch	51.2 / 23.2		54.7 / 24.7			88.4 / 40.1		
Cooling	Natural Convection				Natural convection and internal fan (user replaceable)	Fans (user replaceable)		
Noise	< 25					< 50		
Min.-Max. Operating Temperature Range	-13 to +140 / -25 to +60 (-40 to +60 version available ⁽⁴⁾)							
Protection Rating	NEMA 3R							

⁽¹⁾ For other regional settings please contact SolarEdge support.

⁽²⁾ A higher current source may be used; the inverter will limit its input current to the values stated.

⁽³⁾ Revenue grade inverter P/N: SExxxxA-US000NNR2 (for 7600W inverter:SE7600A-US002NNR2).

⁽⁴⁾ -40 version P/N: SExxxxA-US000NNU4 (for 7600W inverter:SE7600A-US002NNU4).

⁽⁵⁾ P/Ns SExxxxA-US0xxxxx have Manual Rapid Shutdown for NEC 2014 compliance (NEC 2017 compliance with outdoor installation)



solar**edge**

Single Phase Inverter with HD-Wave Technology for North America

SE3000H-US / SE3800H-US / SE5000H-US /
SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US

INVERTERS



Optimized installation with HD-Wave technology

- Specifically designed to work with power optimizers
- 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 CPUC Rule 21 grid compliance
- Extremely small
- High reliability without any electrolytic capacitors
- Built-in module-level monitoring
- Outdoor and indoor installation
- Optional: Revenue grade data, ANSI C12.20 Class 0.5 (0.5% accuracy)





Single Phase Inverter

with HD-Wave Technology for North America

SE3000H-US / SE3800H-US / SE5000H-US /
SE6000H-US/ SE7600H-US / SE10000H-US / SE11400H-US

	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US		
OUTPUT									
Rated AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400	VA	
Max. AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400	VA	
AC Output Voltage Min.-Nom.-Max. (183 - 208 - 229)	-	✓	-	✓	-	-	-	Vac	
AC Output Voltage Min.-Nom.-Max. (211 - 240 - 264)	✓	✓	✓	✓	✓	✓	✓	Vac	
AC Frequency (Nominal)	59.3 - 60 - 60.5 ⁽¹⁾								
Maximum Continuous Output Current 208V	-	16	-	24	-	-	-	A	
Maximum Continuous Output Current @240V	12.5	16	21	25	32	42	47.5	A	
GFDI Threshold	1								
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes								
INPUT									
Maximum DC Power @240V	4650	5900	7750	9300	11800	15500	17650	W	
Maximum DC Power @208V Transformer-less, Ungrounded	-	5100	-	7750 Yes	-	-	-		
Maximum Input Voltage	480								
Nominal DC Input Voltage	380								
Maximum Input Current 208V	-	9	-	13.5	-	-	-	Vdc	
Maximum Input Current @240V	8.5	10.5	13.5	16.5	20	27	30.5	Vdc	
Max. Input Short Circuit Current	45								
Reverse-Polarity Protection	Yes								
Ground-Fault Isolation Detection	600µs Sensitivity								
Maximum Inverter Efficiency	99	99.2							%
CEC Weighted Efficiency	99								
Nighttime Power Consumption	< 2.5								
ADDITIONAL FEATURES									
Supported Communication Interfaces Revenue Grade Data, ANSI C12.20 Rapid Shutdown - NEC 2014 and 2017 690.12	RS485, Ethernet, ZigBee (optional), Cellular (optional) Optional ⁽²⁾ Automatic Rapid Shutdown upon AC Grid Disconnect								
STANDARD COMPLIANCE									
Safety	UL1741, UL1741 SA, UL1699B, CSA C22.2, Canadian AFCL according to T.I.L. M-07								
Grid Connection Standards	IEEE1547, Rule 21, Rule 14 (HI)								
Emissions	FCC Part 15 Class B								
INSTALLATION SPECIFICATIONS									
AC Output Conduit Size / AWG Range	3/4" minimum / 14-6 AWG					3/4" minimum / 14-4 AWG			
DC Input Conduit Size / # of Strings / AWG Range	3/4" minimum / 1-2 strings / 14-6 AWG					3/4" minimum / 1-3 strings / 14-6 AWG			
Dimensions with Safety Switch (HxWxD)	17.7 x 14.6 x 6.8 / 450 x 370 x 174					21.3 x 14.6 x 7.3 / 540 x 370 x 185			
Weight with Safety Switch	22 / 10	25.1 / 11.4	26.2 / 11.9		38.8 / 17.6			in / mm lb / kg	
Noise	< 25					< 50			
Cooling	Natural Convection					Natural convection			
Operating Temperature Range	-13 to +140 / -25 to +60 ⁽³⁾ (-40° F / -40° C option) ⁽⁴⁾								
Protection Rating	NEMA 3R (Inverter with Safety Switch)								

⁽¹⁾ For other regional settings please contact SolarEdge support

⁽²⁾ Revenue grade inverter P/N: SExxxH-US000NNC2

⁽³⁾ For power de-rating information refer to: <https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf>

⁽⁴⁾ -40 version P/N: SExxxH-US000NNU4





Sunrun Installation Services, Inc.
2309 South Mount Prospect Road
Des Plaines, IL 60018

Location: 16400 S 88th Ave, Orland Park, IL 60462

PV Panel Area	948.2 sq ft
Roof Total Area	3396 sq ft
PV Panel Percentage of Roof	27.9%

Area calculator

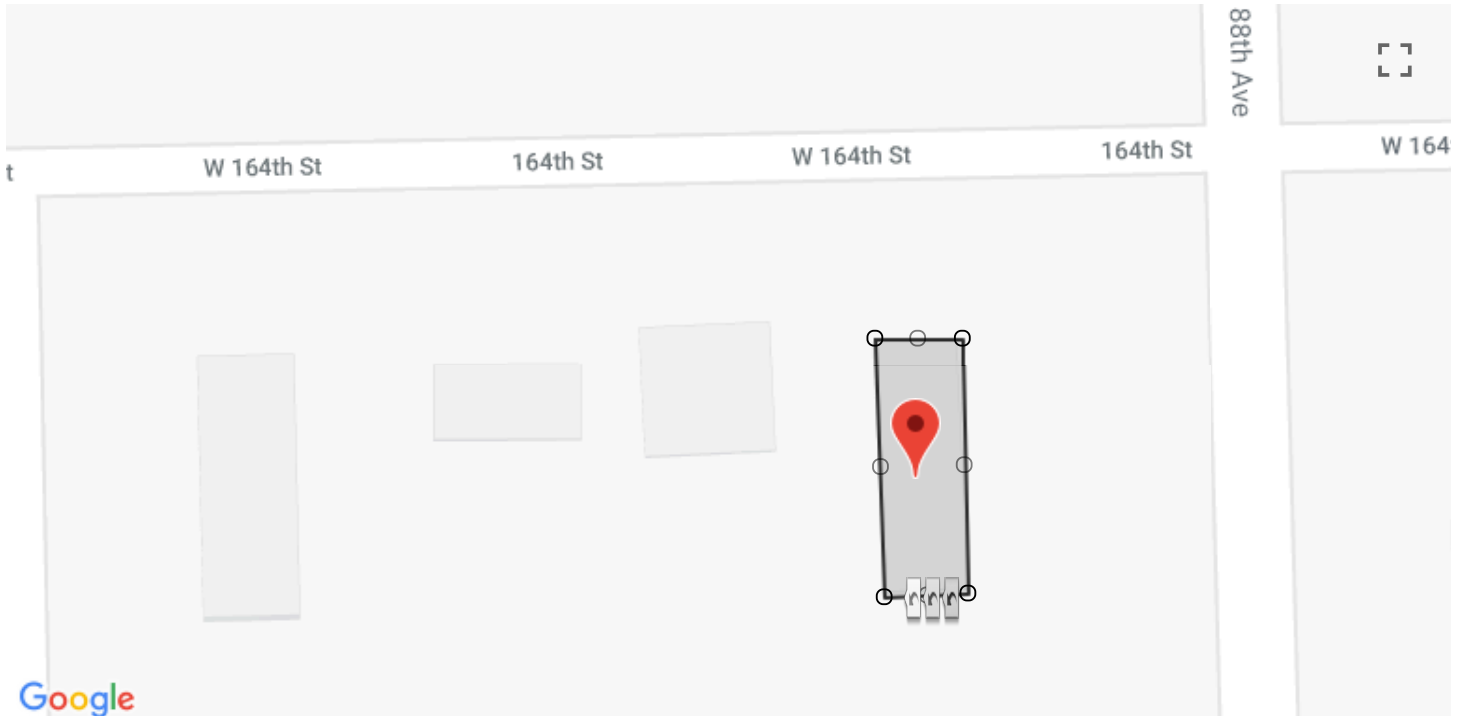
Address

Area

Border

 Only Show Border

Area 315 meters², 3396 feet² 0.08 acres 0.000 miles² 0.000 km²
Perimeter 71.6 meters , 235.0 feet 0.045 miles 0.072 km



(https://maps.google.com/maps?hl=en&gl=us&map_data=!1m1e1!1m2b1?source=google)

Return to this radius map here, just save this link

```
https://www.mapdevelopers.com/area_finder.php?polygons=%5B%5B%5B%5B41.592879100393716%2C-87.83342979095573%5D%2C%5B41.59260112073563%2C-87.83341584481883%5D%2C%5B41.592605132697045%2C-87.83329514541322%5D%2C%5B41.592879911754665%2C-87.83330438210805%5D%2C%5B41.592879100393716%2C-
```

Acreage Calculator - Measure the area of a plot of land

The easiest way to measure the acreage of a plot of land is to start by entering an address that is associated with the plot of land you need the area of. In rural areas where an address may not be available, you can enter the cross street or even the GPS coordinate of a point on the land. For GPS coordinates be sure to enter the latitude followed a comma then the longitude ex. (41.87811, -87.629798). In any case this will place a marker that you can use as a reference point to draw the area on the map. Once you are finished drawing the area calculator will display the area of the shape above the map.

How to use the google maps area calculator tool to measure a roof

Special precautions must be taken when measuring the area of a roof. The images that appear on google maps are often at a slight angle, which combined with the angle of a roof can cause errors. For this reason it is best to outline the roof at points which are all at the same elevation. On a simple house for instance you would only click on the corners of the roof and not on any points along the peak as that would cause an error. After measuring the area of the footprint you can estimate the actual roof area based on the angle of the roof. Similarly if you using the area calculator tool to measure a roof with multiple levels, you should do the individual section separately. The google maps area calculator is not 100% accurate. Do not rely on this tool as your only resource in making important decisions.

Measure perimeter

We now also include the perimeter of the shape that you draw along with the area. This can help you to measure the the edge of a lawn, or the length of a fence