

**TOWN OF HIGH LEVEL
DEVELOPMENT PERMIT**

PERMIT NO.: **DP25-053**
PROPOSED USE: **Permitted Use – 430.92 ft² Solar Collector (Solar Collectors)**
APPLICANT: **Matthew Callghan, Firefly Solar**
LANDOWNER: **Ninie & Julius Fajardo**
LOCATION: **Lot 3, Block 32, Plan 832 1075**

A development involving Application No. DP25-053 has been Approved with Conditions.

1. **The site shall be developed in accordance with the site drawings and information attached hereto as Schedule A.**
2. **The Applicant/Registered Owner shall provide the development authority with a copy of the required approvals from the Alberta Utilities Commission (AUC) and any other provincial or federal agency or utility company prior to the operation of any grid-connected solar energy system.**
3. **Development must be commenced within one (1) year from the Date of Issue. If at the expiry of this period, the development has not commenced, this Permit shall be null and void.**
4. **The Applicant/Registered Owner shall ensure there is no damage to municipal property resulting from this permit. Costs for repairs of municipal property will be assessed by the Town of High Level and will be charged back to the applicant.**

You are hereby authorized to proceed with the development specified, provided that any stated conditions are complied with, that all other applicable permits are obtained, and that the appropriate appeal period has been exhausted. Should an appeal be made against this decision to the Subdivision and Development Appeal Board, this Development Permit shall not come into effect until the appeal has been determined and the Permit upheld, modified or nullified.

DATE OF DECISION OF DEVELOPMENT PERMIT: **November 25, 2025**

DATE OF ISSUE OF DEVELOPMENT PERMIT: **December 17, 2025**

DATE OF VALIDITY OF DEVELOPMENT PERMIT: **December 17, 2025**

SIGNATURE OF DEVELOPMENT AUTHORITY:



 Viv Thoss

NOTES:

1. If the development is found to be incorrectly placed, the applicant may be required to move or remove the development at the sole expense of the Applicant/Registered Owner. Any changes to the attached plans will require a new development permit.
2. An appeal can be made by filing a written notice of appeal along with payment to the **Subdivision and Development Appeal Board (10511 103rd Street, High Level, AB, T0H 1Z0)** within 21 days from the date of the receipt of this decision. In the case of an appeal made by a person referred to in section 685(2) of the *Municipal Government Act*, within 21 days after the date on which the notice of the issuance of the permit was given.
3. **This is a Development Permit ONLY.** Issuance of this Permit does not excuse the applicant from satisfying all other applicable municipal, provincial and/or federal requirements.

OTHER PERMITS ARE REQUIRED

In the interest of public safety and as required by the Safety Codes Act construction permits must be obtained before commencing any work. Required permits may include building, electrical, gas, plumbing, and private sewage. Additionally, the Town of High Level requires permits for water & sewer connection, new accesses, and driveways.

PLEASE NOTE

The Applicant and/or Registered Owner are responsible for applying for, and receiving, all necessary permits prior to beginning construction. Ensure that you or your contractors obtain all other required permits related to the development. For more information regarding how to obtain the required permits, contact Superior Safety Codes 1-866-999-4777. If you are unsure which additional municipal permits you may need, please contact development@highlevel.ca.

SCHEDULE A

Approved November 25, 2025

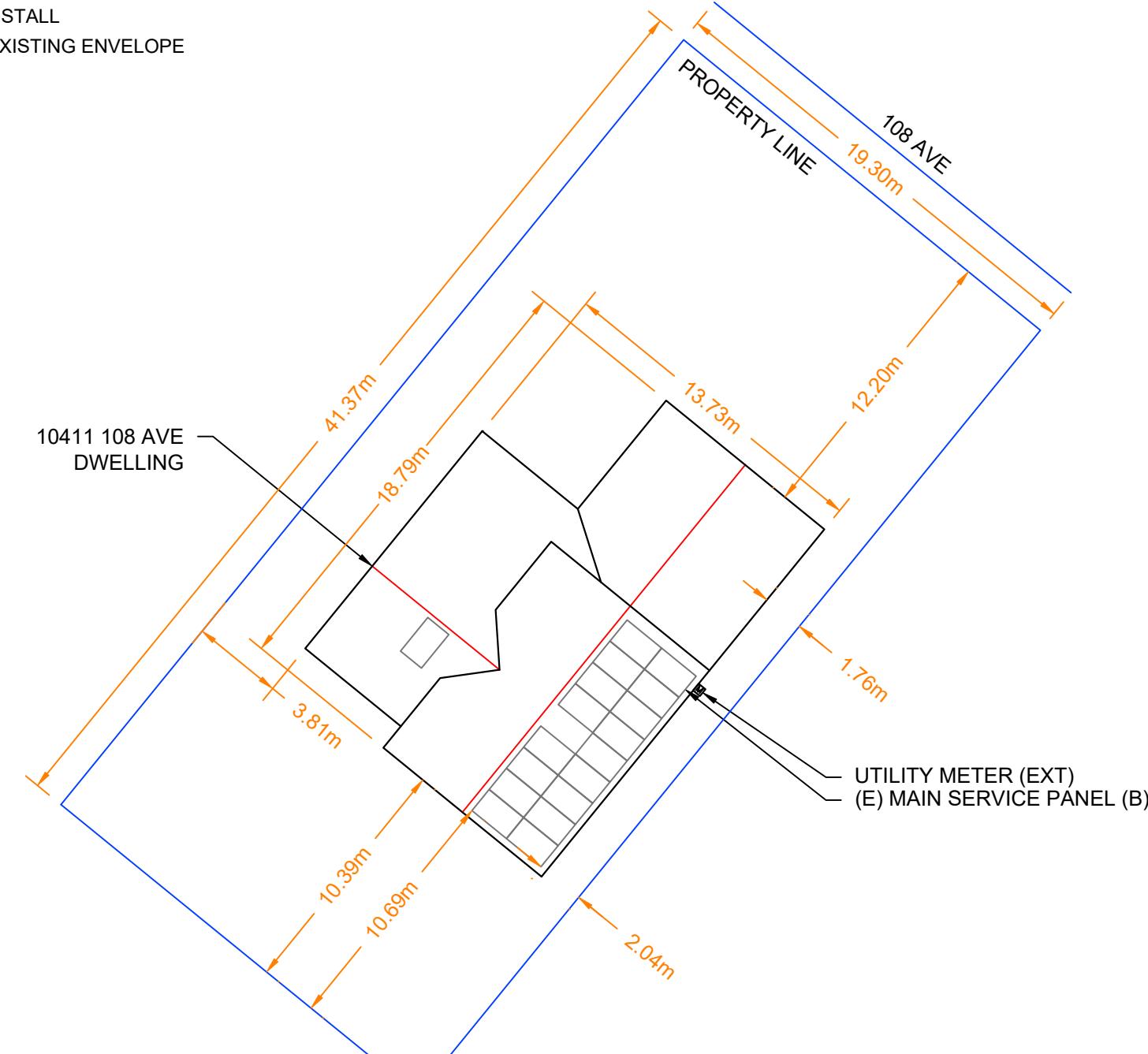


(11 pages)

Viv Thoss
Development Authority

**NOTES:**

- ALL ELECTRICAL BUILDING PENETRATIONS FOR SOLAR PV INSTALL TO BE PROPERLY SEALED TO MAINTAIN INTEGRITY OF THE EXISTING ENVELOPE
- (E) DENOTES EXISTING EQUIPMENT
- (N) DENOTES NEW EQUIPMENT
- (EXT) DENOTES EQUIPMENT LOCATED OUTSIDE
- (1F) DENOTES EQUIPMENT LOCATED INSIDE ON 1ST FLOOR
- (B) DENOTES EQUIPMENT LOCATED IN THE BASEMENT



SCALE: 1:250

AHJ: TOWN OF HIGH LEVEL, AB
GOVERNING CODE:
NATIONAL FIRE CODE – 2023 ALBERTA EDITION
NATIONAL BUILDING CODE - ALBERTA 2023
2024 CANADIAN ELECTRICAL CODE

NOTES:
- SCALE AS SHOWN
- ALL DIMENSIONS IN METERS UNLESS OTHERWISE STATED

NEAREST URGENT CARE FACILITY
NAME:
ADDRESS:
PHONE NUMBER:

PERMIT TO PRACTICE EXACTUS ENERGY INC.	
RM SIGNATURE: <u>W. Agolowitz</u>	
RM APEGA ID #: <u>313353</u>	
DATE: <u>09/22/25</u>	
PERMIT NUMBER: P016590	
The Association of Professional Engineers and Geoscientists of Alberta (APEGA)	



LEGEND

-  METER
-  PVC VENT
-  METAL VENT
-  VENT BOX
-  STRUCTURAL DELIMITER
-  SERVICE MAST
-  SATELLITE
-  ANTENNA
-  SNOW GUARD
-  DOWNSPOUT
-  ELECTRICAL
-  MOUNT
-  RAIL
-  TOP CHORD
-  CHIMNEY

SCALE: 1:125

ROOF MATERIAL: SHINGLE

TOTAL ROOF AREA: 234.70 M²

TOTAL ARRAY AREA: 40.03 M²

TOTAL ARRAY PERCENT COVERAGE: 17.05%

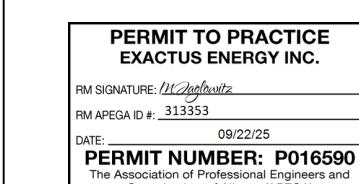
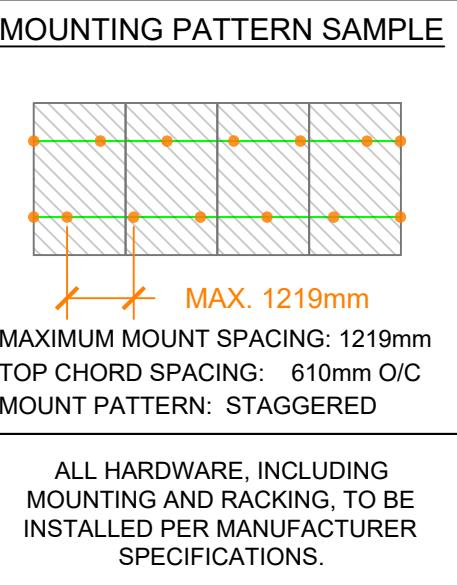
MODULE WATTAGE: 500 W

NUMBER OF PANELS: 16

NUMBER OF PANELS. 1

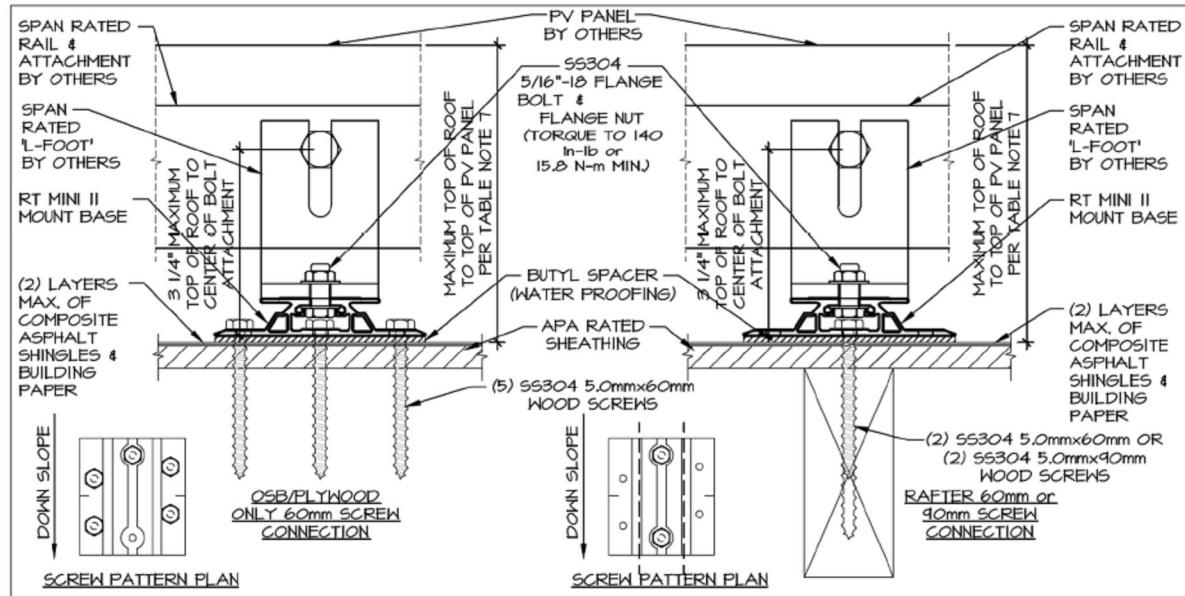
NOTES:

- SOLAR PANEL LAYOUT SUBJECT TO CHANGE ACCORDING TO EXISTING CONDITIONS
- SCALE AS SHOWN
- ALL DIMENSIONS IN METERS UNLESS OTHERWISE STATED



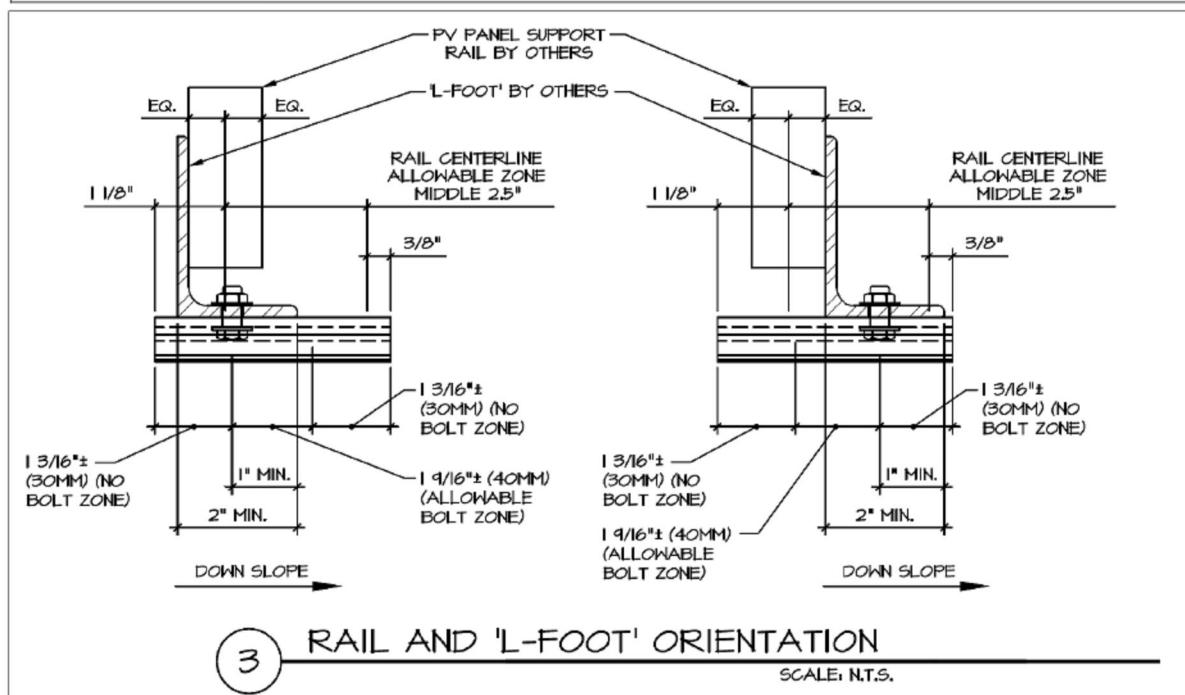
Signed on: 09/09/05





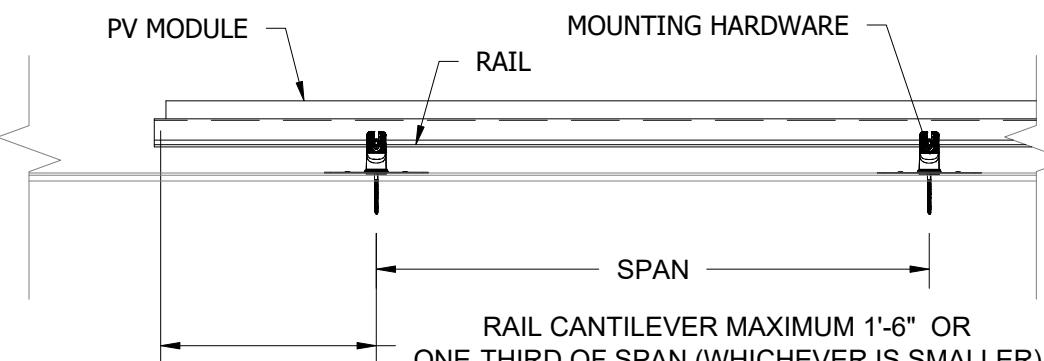
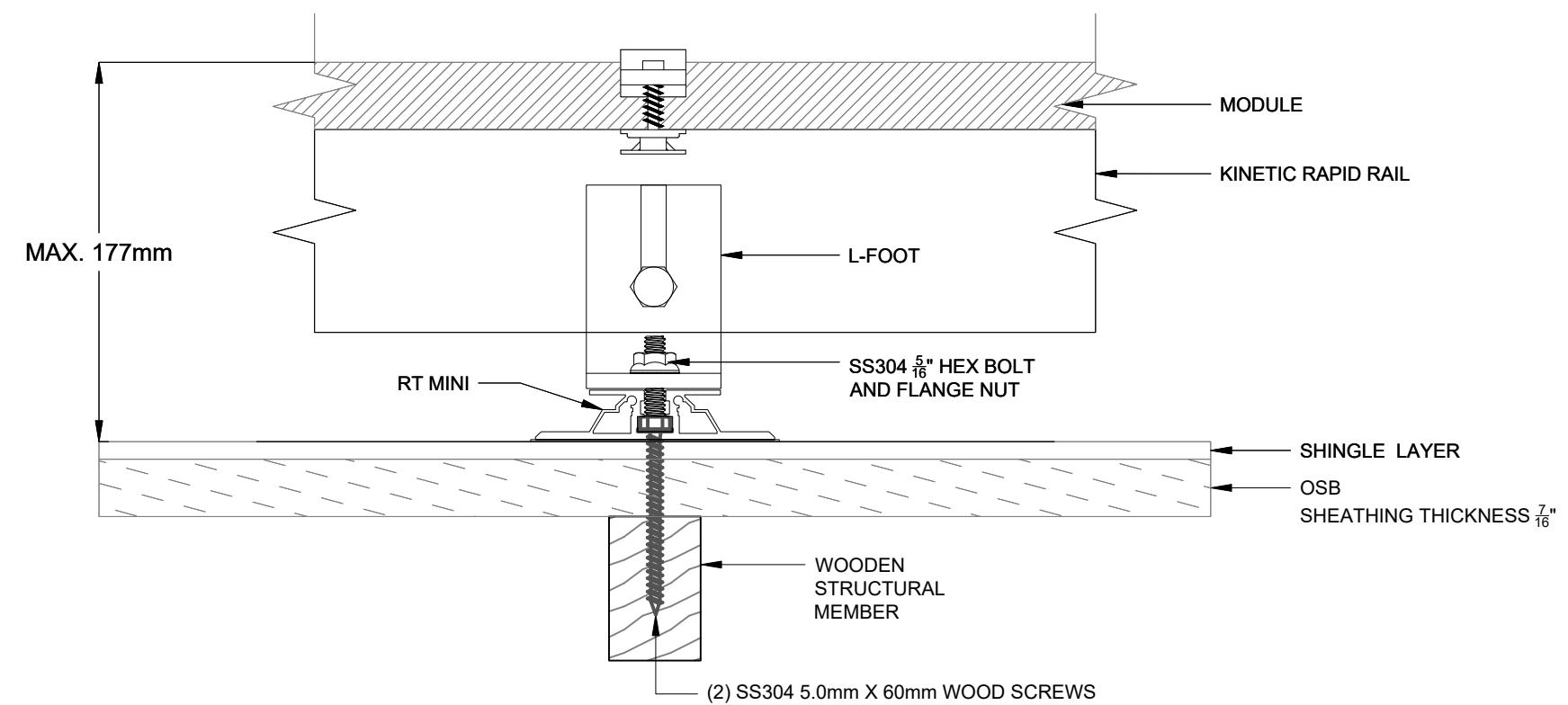
1 RAIL AND 'L-FOOT' ORIENTATION

SCALE: N.T.S.



3 RAIL AND 'L-FOOT' ORIENTATION

SCALE: N.T.S.



PERMIT TO PRACTICE EXACTUS ENERGY INC.	
RM SIGNATURE: <i>Matthew E. Jaglowitz</i>	
RM APEGA ID #: 313353	
DATE: 09/22/25	
PERMIT NUMBER: P016590	
The Association of Professional Engineers and Geoscientists of Alberta (APEGA)	

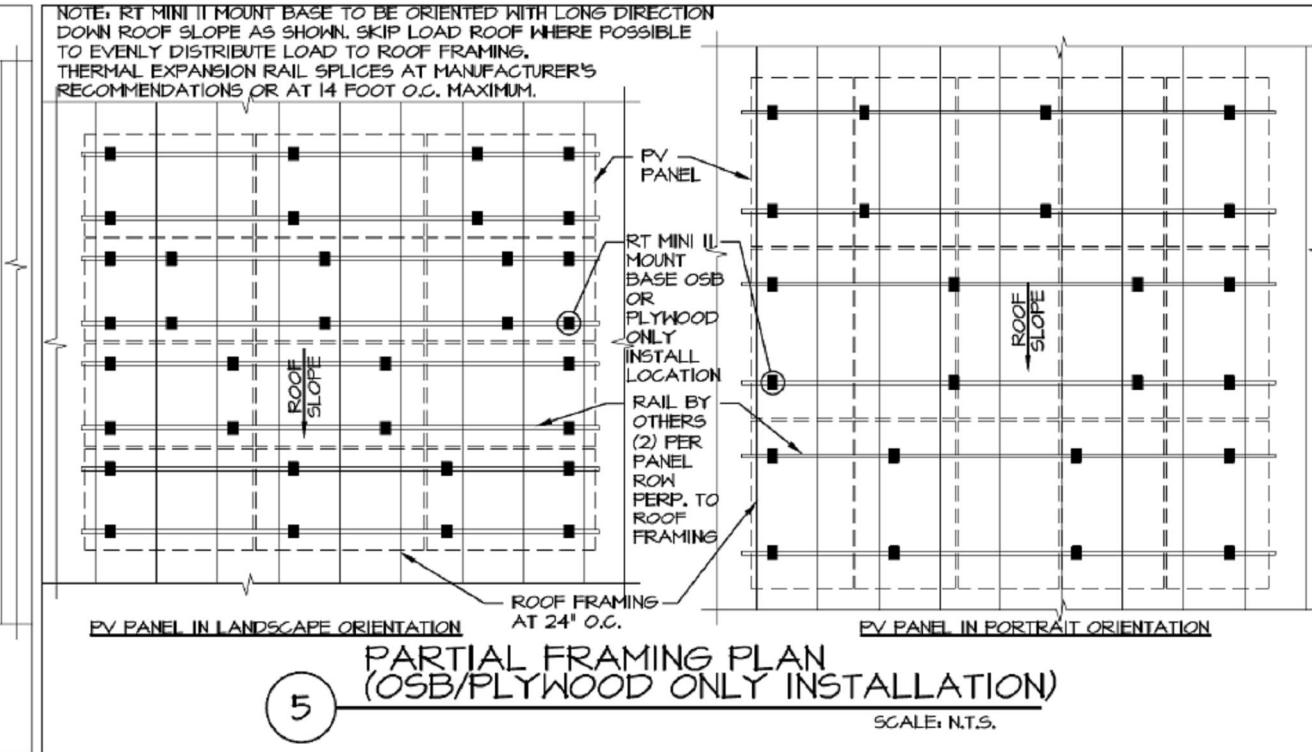
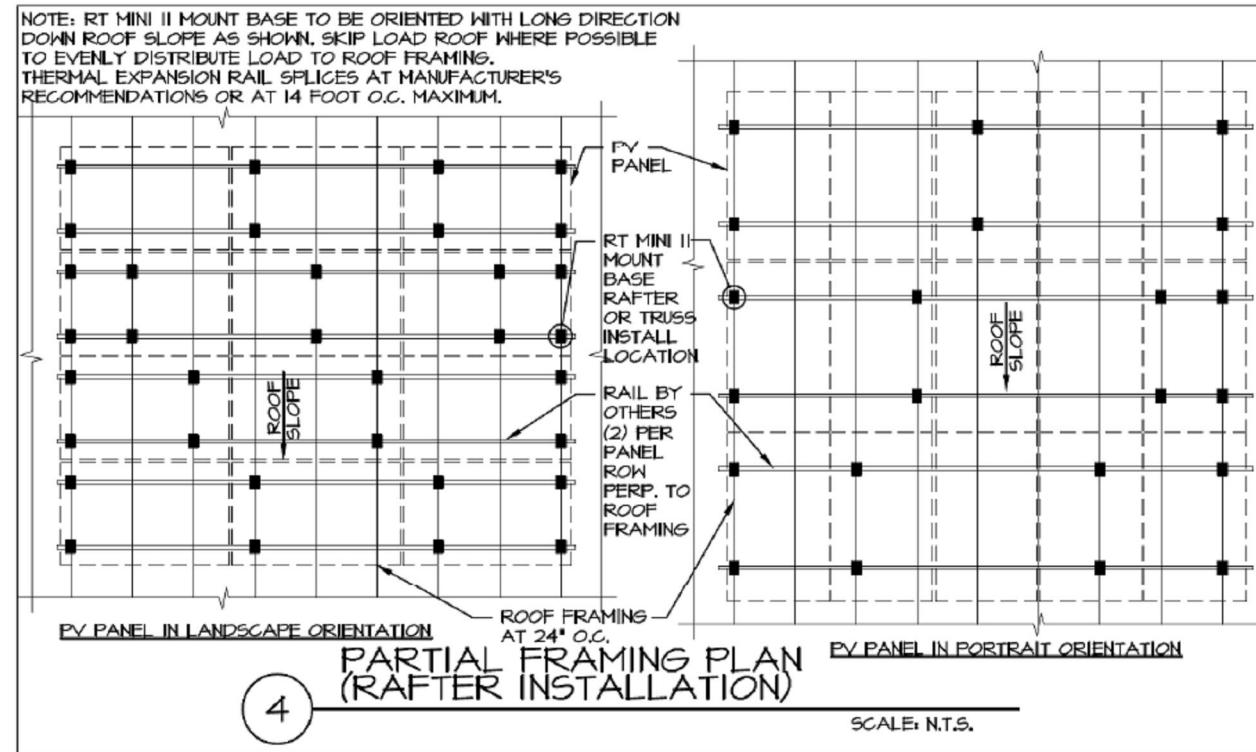


Signed on: 09/22/25

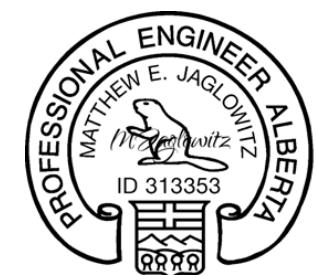
PANEL TYPE: LONGI LR8-54HGBB-500W
PANEL SIZE: 1961.00mm X 1134.00mm
RACKING TYPE: KINETIC RAPID RAIL
MOUNT TYPE: RT MINI II
SOLAR SYSTEM DEAD LOAD: 0.14kN/m²

NOTES:

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PERMIT TO PRACTICE	
EXACTUS ENERGY INC.	
RM SIGNATURE:	<i>M. Jaglowitz</i>
RM APEGA ID #:	313353
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PERMIT NUMBER: P016590	
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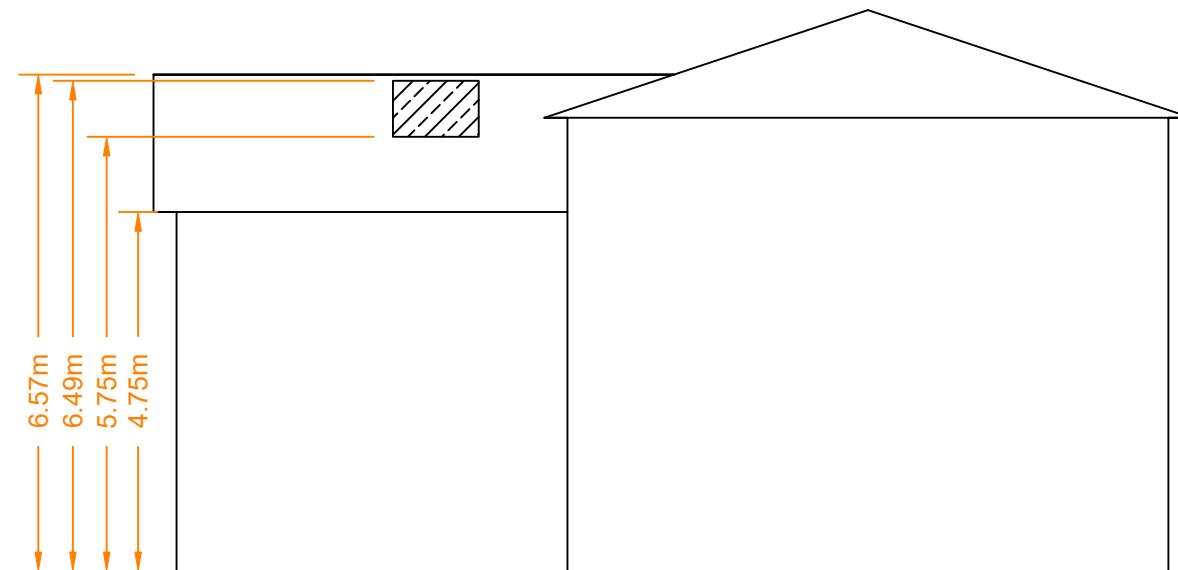


Signed on: 09/22/25

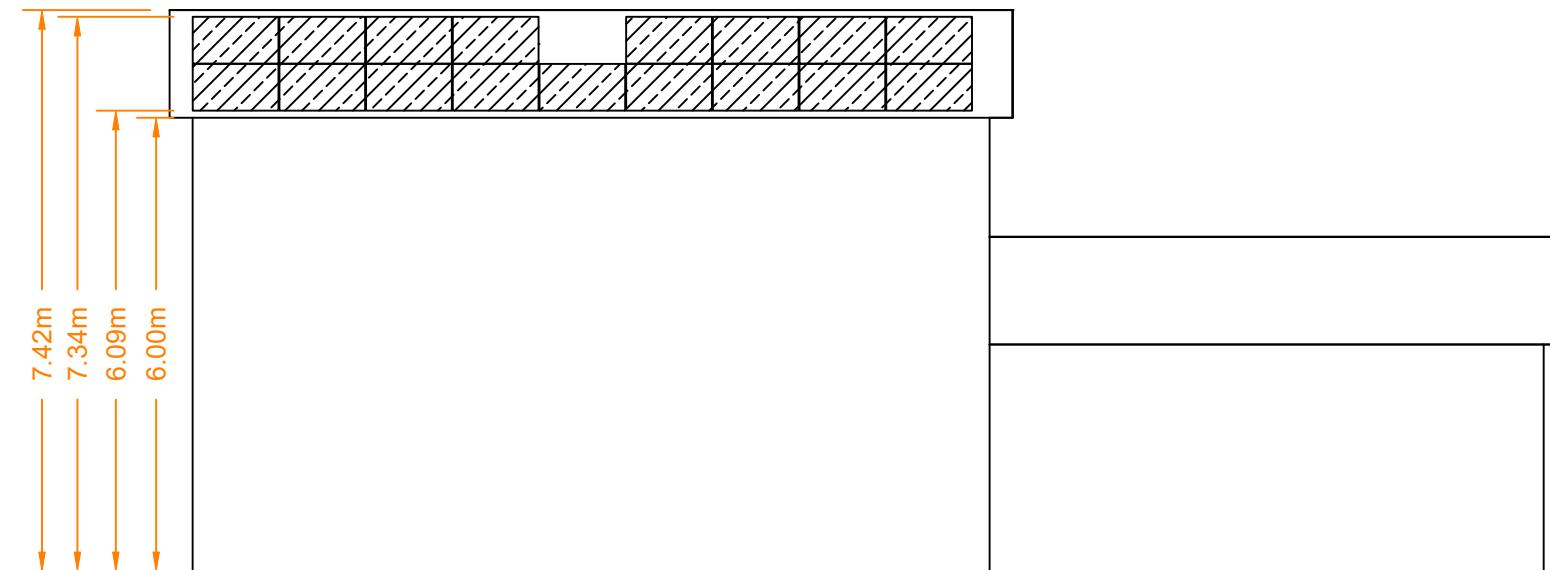
PANEL TYPE: LONGI LR8-54HGBB-500W
PANEL SIZE: 1961.00mm X 1134.00mm
RACKING TYPE: KINETIC RAPID RAIL
MOUNT TYPE: RT MINI II
SOLAR SYSTEM DEAD LOAD: 0.14kN/m²

NOTES:

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SOUTHWEST ELEVATION



SOUTHEAST ELEVATION

SCALE: NTS

PANEL TYPE: LONGI LR8-54HGBB-500W

PANEL SIZE: 1961.00mm X 1134.00mm

RACKING TYPE: KINETIC RAPID RAIL

MOUNT TYPE: RT MINI II

SOLAR SYSTEM DEAD LOAD: 0.14kN/m²

NOTES:

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EXACTUS ENERGY INC.

RM SIGNATURE: *M. Jaglowitz*

RM APEGA ID #: 313353

DATE: 09/22/25

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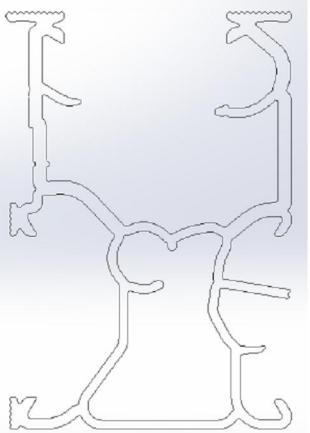
The Association of Professional Engineers and
Geoscientists of Alberta (APEGA)



Signed on: 09/22/25

Rapid Rail

Y
X



Properties

Area:	0.5683 in ²
Moments of inertia:	X: 0.2834 in ⁴ Y: 0.1502 in ⁴
Product of inertia:	XY: 0.0028 in ⁴
Radii of gyration:	X: 0.7062 in Y: 0.5140 in
Principal moments of inertia of the area, at the centroid:	I: 0.15009 in ⁴ J: 0.28353 in ⁴
Material:	Aluminum



65 Martin Ross Ave, Toronto, ON
416-665-3755
www.kineticsolar.com

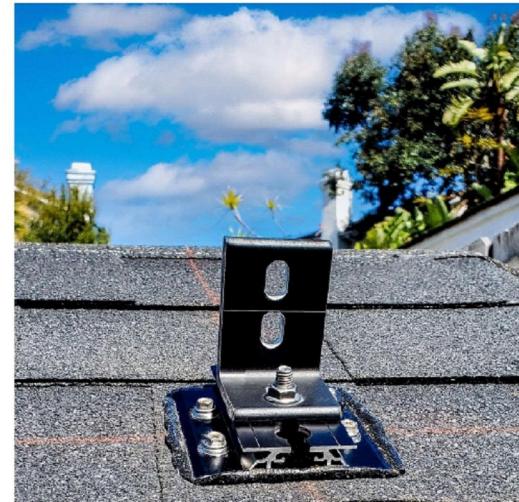
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Signed on: 09/22/25

RT-MINI II

A Self-flashing PV Mount Featuring Roof Tech's AlphaSeal®



RT-MINI II is suitable for all systems with any L-Foot

✓ No Caulking or Pre-Drilling Required

✓ Universal Attachment to Any Slope

✓ Metal, EPDM, TPO, SBS, & Asphalt Roofs

✓ Wide Range of Applications & Ultimate Flexibility on the Roof

✓ No Need to Bend Rails
N-S & Rotational Adjustments



Installation Manual



ICC ESR 3575



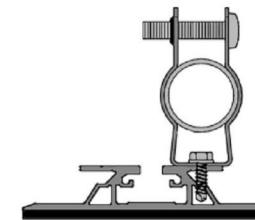
Roof Tech
The Standard for Waterproof Flexible Flashing Since 1994

www.roof-tech.us

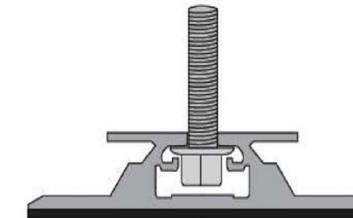
info@roof-tech.us



Conduit Strap Installation



RT2-04-FBN25
Hex Flange Bolt and Nut Set
Required for L-Foot Attachment



Components



RT2-00-MINIBK2

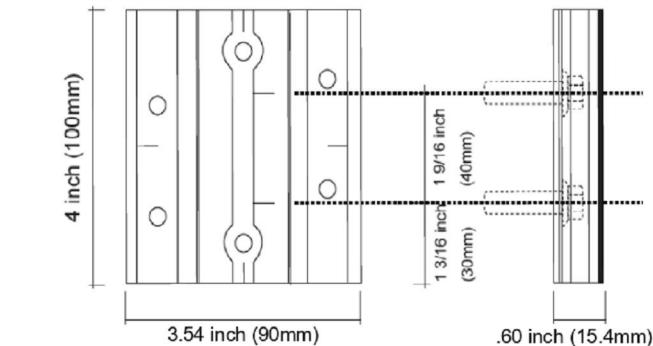


MINI II base : 20 ea.
Screw : 40 ea.
Extra RT-Butyl : 4 ea.

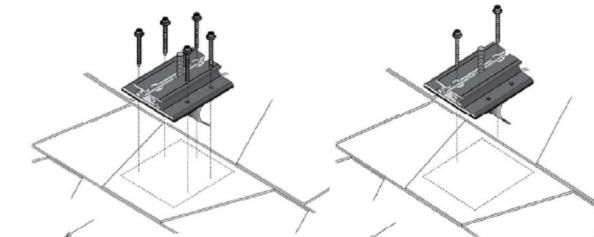
Optional Items:

5 x 60mm Mounting Screw (RT2-04-SD5-60) : 100 ea./Bag
5/16 X 25MM Flange Bolt & Nut (RT2-04-FBN25) : 100 ea./Bag
RT-Butyl (RT2-04-MNBUTYL) : 10 ea./Box

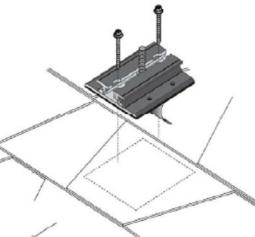
Dimensions in (mm)



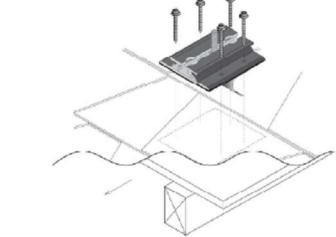
Deck Installation OSB & PLYWOOD ONLY



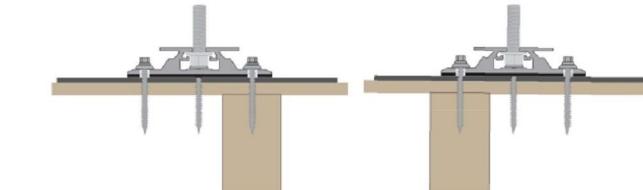
Rafter Installation



Hybrid Installation Rafter and Deck



Offset Rafter Attachment Options



Roof Tech Inc. AlphaSeal™ Technology has been used on over one million residential PV systems since 1994. It is the first PV mounting system with Flexible Flashing certified by the ICC, engineered to withstand wind speeds up to 180 mph and ground snow up to 90 psf.

Engineered to ASTM D 1761
(Standard Test Methods for Mechanical Fasteners in Wood)

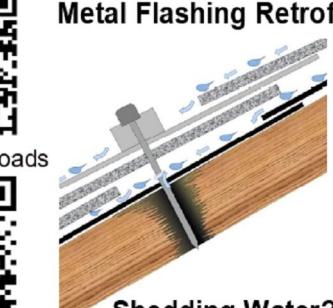
ICC ESR-3575

ASTM2140 Testing

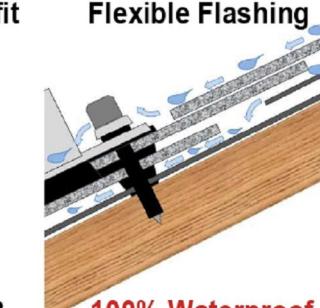
P.E. Letters



Support & Downloads



Metal Flashing Retrofit



Flexible Flashing

Shedding Water?

100% Waterproof

PERMIT TO PRACTICE EXACTUS ENERGY INC.

RM SIGNATURE: 

RM APEGA ID #: 313353

DATE: 09/22/25

PERMIT NUMBER: P016590

The Association of Professional Engineers and

Geoscientists of Alberta (APEGA)



Signed on: 09/22/25



Microinverter Datasheet

HMS-350-1T-NA
HMS-400-1T-NA
HMS-450-1T-NA
HMS-500-1T-NA

Features

- 01 High-powered microinverter for 1-in-1 series with superior performance
- 02 Safer for rooftop solar stations with PV rapid shutdown compliance
- 03 With Reactive Power Control, compliant with UL 1741, IEEE 1547, UL 1741 SB, etc.
- 04 1-in-1 design enables most flexible applications

Region: North America V202502
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hoymiles.com
 sales@hoymiles.com

Technical Specifications

Model	HMS-350-1T-NA	HMS-400-1T-NA	HMS-450-1T-NA	HMS-500-1T-NA
Input Data(DC)				
Commonly used module power (W)	280 to 470+	320 to 540+	360 to 600+	400 to 670+
Maximum input voltage (V)	60	65	65	65
MPPT voltage range (V)		16-60		
Start-up voltage (V)		22		
Maximum input current (A)	11.5	12.5	13.3	14
Maximum input short circuit current (A)	16	20	20	20
Number of MPPTs		1		
Number of inputs per MPPT		1		
Output Data(AC)				
Peak output power (VA)	350	400	450	500
Maximum continuous output power (VA)	319	360	410	475
Maximum continuous output current (A)	1.33	1.53	1.50	1.73
Nominal output voltage/range (V)*	240/211-264	208/183-228	240/211-264	208/183-228
Nominal frequency/range (Hz)*			60/55-65	
Adjustable power factor (@nominal power)			> 0.99 default 0.8 leading .. 0.8 lagging	
Total harmonic distortion (@nominal power)			< 3%	
Maximum units per 10 AWG branch**	18	15	14	12
Maximum units per 12 AWG branch**	12	10	9	8
Efficiency				
CEC peak efficiency	96.70%	96.70%	96.50%	96.50%
Nominal MPPT efficiency			99.80%	
Night power consumption (mW)			< 50	
Mechanical Data				
Ambient temperature range (°F)			-40 to +149 (-40°C to +65°C)	
Dimensions (W x H x D [inches])			7.17 x 6.46 x 1.18 (182 x 164 x 30 mm)	
Weight (lbs)			3.86 (1.75 kg)	
Enclosure rating			Outdoor-IP67 (NEMA 6)	
Cooling			Natural convection (no fans)	
Features				
Communication			Sub-1G	
Type of isolation			Galvanically Isolated HF Transformer	
Monitoring			5-Miles Cloud (Hoymiles Monitoring Platform)	
Compliance			UL 1741, IEEE 1547, UL 1741 SB, CA Rule 21, CSA C22.2 No. 107.1-16, FCC 15B, FCC 15C	
PV Rapid Shutdown			Conforms with NEC-2017 and NEC-2020 Article 690.12 and CEC-2021 Sec 64-218 Rapid Shutdown of PV Systems.	

* : Nominal voltage/frequency range can vary depending on local requirements.

**: Refer to local requirements for exact number of microinverters per branch.

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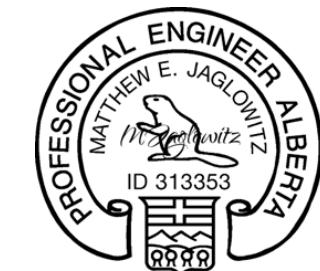
PERMIT TO PRACTICE
EXACTUS ENERGY INC.

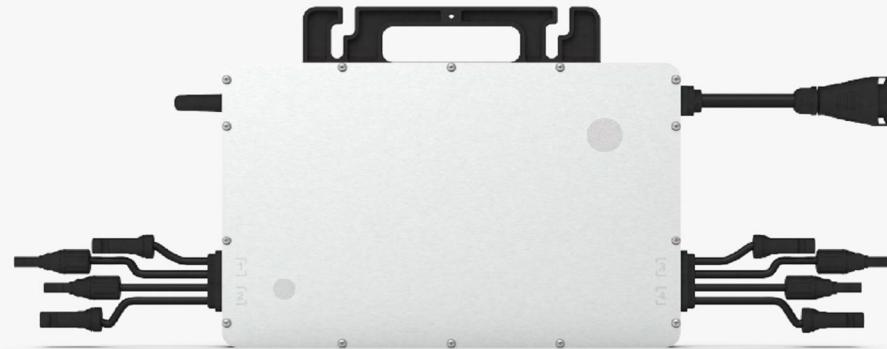
RM SIGNATURE: 

RM APEGA ID #: 313353

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 The Association of Professional Engineers and Geoscientists of Alberta (APEGA)





Microinverter Datasheet

HMS-1600-4T-NA HMS-1800-4T-NA HMS-2000-4T-NA

Features

- 01 High-powered microinverter for 4-in-1 series with superior performance
- 02 Safer for rooftop solar stations with PV rapid shutdown compliance
- 03 With Reactive Power Control, compliant with UL 1741, IEEE 1547, UL 1741 SB, etc.
- 04 Independent MPPT and monitoring ensure greater energy harvest and easier maintenance
- 05 4-in-1 design enables most cost-effective solar solution
- 06 Sub-1G wireless solution allows stable communication in commercial and industrial settings

Region: North America V202502
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hoymiles.com
sales@hoymiles.com

Technical Specifications

Model	HMS-1600-4T-NA	HMS-1800-4T-NA	HMS-2000-4T-NA
Input Data(DC)			
Commonly used module power (W)	320 to 540+	360 to 600+	400 to 670+
Maximum input voltage (V)		65	
MPPT voltage range (V)		16-60	
Start-up voltage (V)		22	
Maximum input current (A)	4 x 12.5	4 x 13.3	4 x 14
Maximum input short circuit current (A)		4 x 20	
Number of MPPTs		4	
Number of inputs per MPPT		1	
Output Data(AC)			
Peak output power (VA)	1600	1800	2000
Maximum continuous output power (VA)	1440	1660	1918
Maximum continuous output current (A)	6.00	6.92	6.92
Nominal output voltage/range (V)*	240/211-264	208/183-228	240/211-264
Nominal frequency/range (Hz)*			60/55-65
Adjustable power factor (@nominal power)			> 0.99 default 0.8 leading ... 0.8 lagging
Total harmonic distortion (@nominal power)			< 3%
Maximum units per 10 AWG branch**	4	3	3
Efficiency			
CEC peak efficiency	96.70%	96.50%	96.50%
Nominal MPPT efficiency		99.8%	
Night power consumption (mW)		< 50	
Mechanical Data			
Ambient temperature range (°F)			-40 to +149 (-40 to +65°C)
Dimensions (W x H x D [inch])			13.03 x 8.58 x 1.44 (331 x 218 x 36.6 mm)
Weight (lbs)			10.36 (4.7 kg)
Enclosure rating			Outdoor-NEMA 6 (IP67)
Cooling			Natural convection-No fans
Features			
Communication			Sub-1G
Type of isolation			Galvanically Isolated HF Transformer
Monitoring			S-Miles Cloud (Hoymiles Monitoring Platform)
Compliance			UL 1741, IEEE 1547, UL 1741 SB, CA Rule 21***, CSA C22.2 No. 107.1-16, FCC 15B, FCC 15C
PV Rapid Shutdown			Conforms with NEC-2017 and NEC-2020 Article 690.12 and CEC-2021 Sec 64-218 Rapid Shutdown of PV Systems.

* : Nominal voltage/frequency range can vary depending on local requirements.

** : Refer to local requirements for exact number of microinverters per branch.

***: The HMS-2000-4T-NA microinverter complies with both CA Rule 21 (240 Vac) and CA Rule 21 (208 Vac).

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