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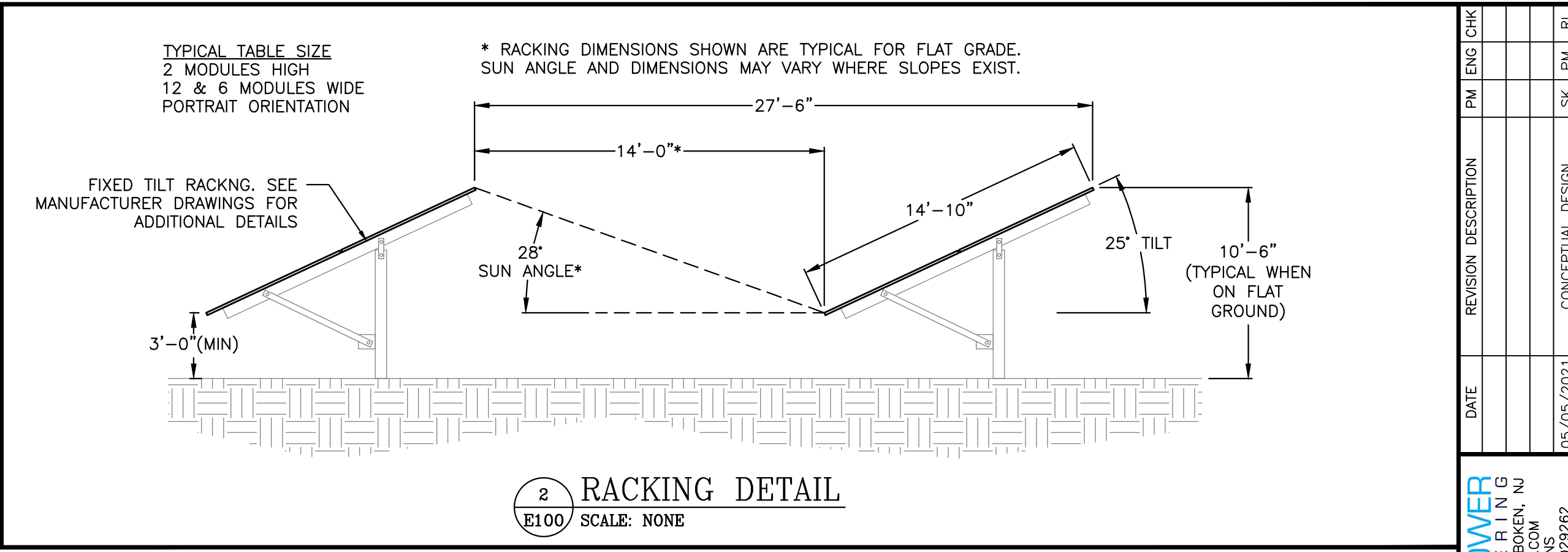
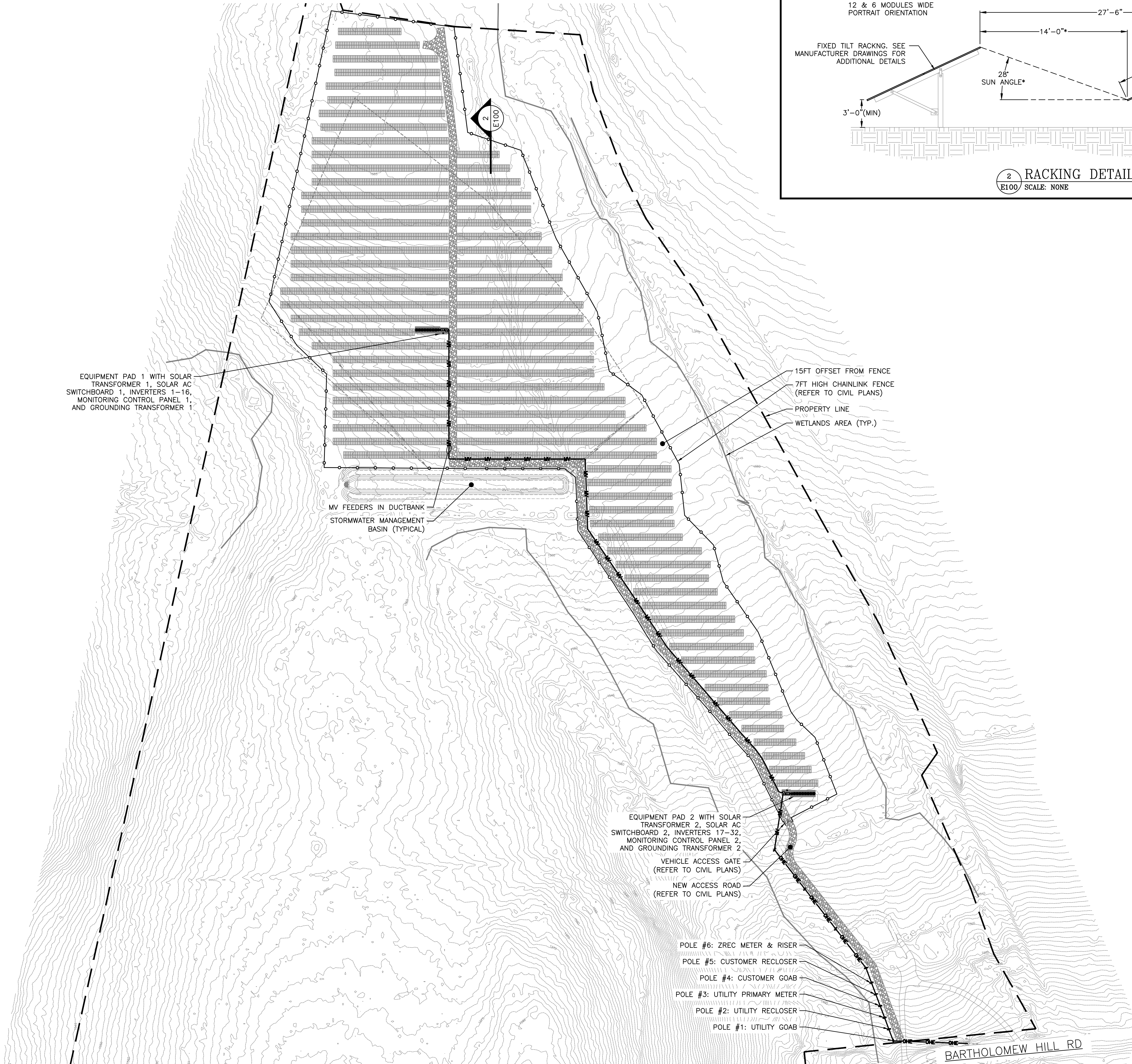
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PLOT DATE: 5/7/2021 10:01 AM

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1 AC ELECTRICAL PLAN
E100 SCALE: 1" = 100'-0"

LINETYPE LEGEND

— MV— MV CIRCUIT IN CONDUIT

— OHE— OVERHEAD FEEDER

DRAWING TITLE

AC ELECTRICAL PLAN

DRAWING #

E100

PROJECT: GROUND MOUNT SYSTEM AT GOSHEN FARM 129 BARTHOLOMEW HILL ROAD GOSHEN CT, 06756

DC SYSTEM SIZE: 4,651,200 kW
AC SYSTEM SIZE: 4,000,000 kW
MODULE TYPE: CS3Y-475MB-AG
MODULE QUANTITY: 9,792
ARRAYING: 25° TILT, 0° AZIMUTH ORIENTATION

PAGE SIZE: 36" x 24"
PROJECT #: 01590.01

DEVELOPER: Greenskies a Clean Focus company

GREENSKIES 127 WASHINGTON AVENUE NORTH HAVEN, CT 06473 WWW.GREENSKIES.COM

PUREPOWER ENGINEERING 111 RIVER STREET FARMINGTON, CT 06030-1000 WWW.PUREPOWER.COM LICENSED PROFESSIONAL ENGINEER CT LICENSE NO. 03629262

DATE: 05/05/2021

REVISION DESCRIPTION: CONCEPTUAL DESIGN

PM: ENG: CHK: SK: PM: RI:

THREE-PHASE STRING INVERTER 125 KW CSI-125KTL-GI-E

Canadian Solar's grid-tied, transformer-less string inverters help accelerate the use of three-phase string architecture for commercial rooftop and small ground-mount applications. An NRTL approved, cost-effective alternative to central inverters, these inverters are modular design building blocks that provide high yield and enable significant BoS cost savings. They provide up to 98.8 % conversion efficiency, and a wide operating range for maximum energy harvest.



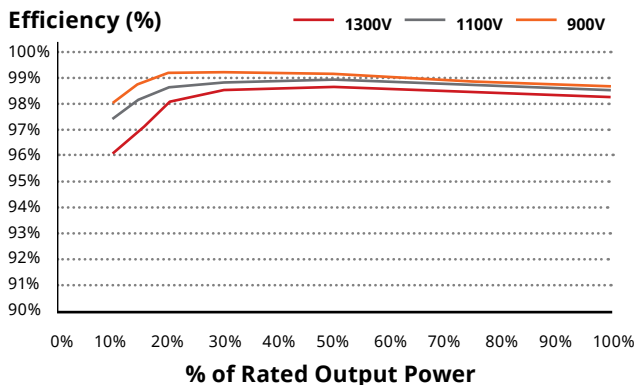
Standard warranty, extension up to 20 years

KEY FEATURES

- Maximum efficiency of 99.1%, CEC efficiency of 98.6%
- Single MPPT for higher conversion efficiency
- Transformerless design
- PID mitigation capability

EFFICIENCY CURVE

CSI-125KTL-GI-E @ 900 V



HIGH RELIABILITY

- Advanced thermal design with variable speed fans
- Ground-fault detection and interruption circuit

BROAD ADAPTIBILITY

- NEMA 4X (IP65), outdoor application
- Utility interactive controls: active power derating, reactive power control and over frequency derating
- Integrated wiring box design
- Integrated DC and AC load rated disconnects
- Wide MPPT range for flexible string sizing
- AC terminals compatible with copper and aluminum conductors
- Supports up to 20 DC string inputs

CANADIAN SOLAR INC. is committed to providing high quality solar products, solar system solutions and services to customers around the world. As a leading PV project developer and manufacturer of solar modules with over 33 GW deployed around the world since 2001, Canadian Solar Inc. is one of the most bankable solar companies worldwide.

*For detailed information, please refer to the Installation Manual.

CANADIAN SOLAR INC.

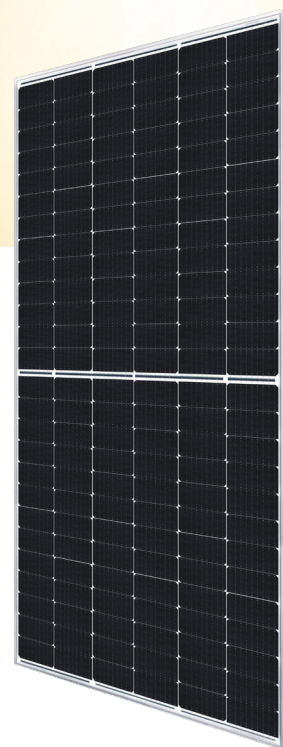
545 Speedvale Avenue West, Guelph, Ontario N1K 1E6, Canada | www.canadiansolar.com

SYSTEM/TECHNICAL DATA	
MODEL NAME	CSI-125KTL-GI-E
DC INPUT	
Max. PV Power	187.5kW
Max. DC Input Voltage	1500 V _{DC}
Operating DC Input Voltage Range	860-1450 V _{DC}
Start-up DC Input Voltage	900 V _{DC}
Number of MPP Trackers	1
MPPT Full Power Voltage Range	860-1450 V _{DC}
Operating Current (Imp)	150 A
Max. Input Current (Isc)	300 A
Number of DC Inputs	20
DC Disconnection Type	Load rated DC switch
AC OUTPUT	
Rated AC Output Power	125 kW
Max. AC Output Power	125 kW
Rated Output Voltage	600 V _{AC}
Output Voltage Range*	528-660 V _{AC}
Grid Connection Type	3/N/PE
Nominal AC Output Current	120 A
Rated Output Frequency	50/60 Hz
Output Frequency Range*	47-62 Hz
Power Factor	1 default (±0.8 adjustable)
Current THD	< 3 %
AC Disconnection Type	Load rated AC switch
SYSTEM	
Topology	Transformerless
Max. Efficiency	99.1 %
EU Efficiency	98.6 %
Night Consumption	< 2 W
ENVIRONMENT	
Protection Degree	NEMA 4X (IP65)
Cooling	Intelligent Redundant Cooling
Operating Temperature Range	-25 ° C to +60 ° C
Storage Temperature Range	-40 ° C to +70 ° C
Operating Humidity	0 - 100 %
Operating Altitude	4000 m
Audible Noise	<55 dBA @ 1 m
DISPLAY AND COMMUNICATION	
Display	LED
Communication	Standard: RS485 (Modbus RTU), AND either MODBUS or ETHERNET
MECHANICAL DATA	
Dimensions (W / H / D)	1176 x 713.5 x 315 mm
Weight	84 kg
Installation Angle	Back title up to 15 degrees
DC Inputs	MC4/ T4
DC Fuse Rating	20A
SAFETY	
Safety and EMC Standard	IEC62109-1/-2, IEC/EN 61000-2/-4
Grid Standard	VDE0126-1-1, IEC61683 or EN50530
Smart-Grid Features	Voltage-Ride Thru, Frequency-Ride Thru, Soft-Start, Volt-Var, Frequency-Watt, Volt-Watt

*The "Output Voltage Range" and "Output Frequency Range" may differ according to specific grid standard.

* The specifications and key features contained in this datasheet may deviate slightly from our actual products due to the on-going innovation and product enhancement. Canadian Solar Inc. reserves the right to make necessary adjustment to the information described herein at any time without further notice.

Caution: For professional use only. The installation and handling of PV equipment requires professional skills and should only be performed by qualified professionals. Please read the safety and installation instructions before using the product.



BiHiKu5 Mono

465 W ~ 490 W

BIFACIAL MONO PERC

UP TO 30% MORE POWER FROM THE BACK SIDE

CS3Y-465 | 470 | 475 | 480 | 485 | 490MB-AG

Dimensions: 2260 × 1048 × 32 mm (89.0 × 41.3 × 1.26 in)

Weight: 29.9 kg (65.9 lbs)

Max. System Voltage: 1500 V (IEC/UL) or 1000 V (IEC/UL)

MORE POWER



Module power up to 490 W
Module efficiency up to 20.7 %



Up to 11.5 % lower LCOE
Up to 3.2 % lower system cost



Comprehensive LID / LeTID mitigation
technology, up to 50% lower degradation



Compatible with mainstream trackers,
cost effective product for utility power plant



Better shading tolerance

MORE RELIABLE



Minimizes micro-crack impacts



Heavy snow load up to 5400 Pa,
wind load up to 2400 Pa*



**Enhanced Product Warranty on Materials
and Workmanship***



Linear Power Performance Warranty*

**1st year power degradation no more than 2%
Subsequent annual power degradation no more than 0.45%**

*According to the applicable Canadian Solar Limited Warranty Statement.

MANAGEMENT SYSTEM CERTIFICATES*

ISO 9001:2015 / Quality management system
ISO 14001:2015 / Standards for environmental management system
OHSAS 18001:2007 / International standards for occupational health & safety

PRODUCT CERTIFICATES*

* As there are different certification requirements in different markets, please contact your local Canadian Solar sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

* For detailed information, please refer to the Installation Manual.

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CANADIAN SOLAR INC. is committed to providing high quality solar products, solar system solutions and services to customers around the world. No. 1 module supplier for quality and performance/price ratio in IHS Module Customer Insight Survey. As a leading PV project developer and manufacturer of solar modules with over 43 GW deployed around the world since 2001.

6 August 2020

AM2020-013rv0

Gina L. Wolfman
Clean Focus and Greenskies
127 Washington Ave.
West Building, Lower Level
North Haven, CT, 06473

Subject: CS3W-395PB-AG module information

Dear Mrs. Gina Wolfman,

This letter is provide clarification on the CS3W-395PB-AG bifacial PV module and specifically the following items:

1. The CS3W-395PB-AG or any of the other Canadian Solar PV modules do not contain PFAS (polyfluoroalkyl substances) or its derivatives. Such chemical is not used in the manufacture of any Canadian Solar modules.
2. TCLP test was conducted on the CS3W-395PB-AG module and no Selenium was identified in the report.
3. To learn more about the US EPA and its TLCP process please visit <https://www.epa.gov/hw-sw846/sw-846-test-method-1311-toxicity-characteristic-leaching-procedure>
4. The PV module is a completely sealed construction inside two layers of 2mm solid glass where PV cells are contained. The module is enclosed inside aluminium frame and sealed with a silicon sealant. Such construction assures that modules will not leach any chemicals into the environment. In the event the PV module is damaged it is possible that Lead (heavy metal) can leach out of the PV module as per the TLCP report. When disposing PV modules at the end of their life cycle, it is important to utilize a landfill that can safely contain such possible leaching.

Please do not hesitate to contact me with further questions.

Best Regards,

Andrey Malyshev
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