



# Cando-Air Series

## N Type Solar Module

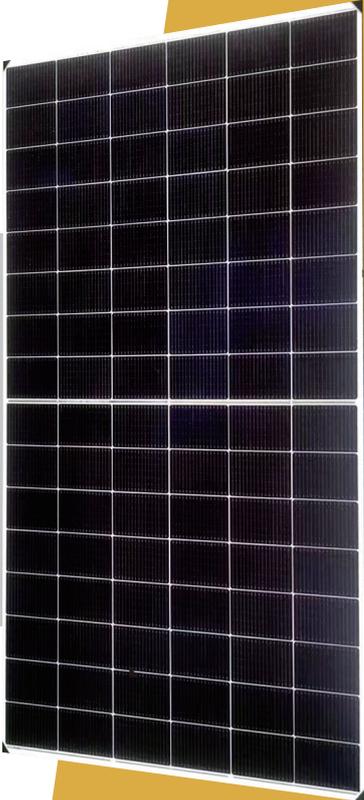
PRODUCT:

T1148L-WN / T1148L-BN

POWER RANGE:

# 425-450W

\*Recommend for C&I and residential rooftop



<b>450W</b> Max Power Output	<b>22.7%</b> Max Panel Efficiency	<b>SMBB</b> Super Multi-busbar Technology	<b>N Type</b> 210R Wafer
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### Excellent Energy Efficiency

- Market leading temperature coefficient (-0.29%/°C);
- 182\*105mm and SMBB technology provide higher efficiency (22.7%)



### Multi-busbar Technology

- Extremely high light utilization;
- Greater power collection capability;
- Effectively improve power output and reliability



### Aesthetic Appearance Design

- Elegant design in all-black appearance, harmonious integration with the components of the building to provide an intense aesthetic experience



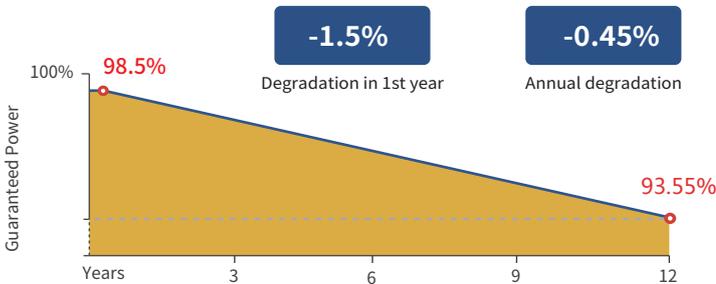
### Flexible Module Design

- Small panel design, light in weight, flexible in transportation and loading



### Excellent Low Light Performance

- More power output in low light conditions such as cloudy day, mornings and evenings



6 years Product Warranty



12 years Power Warranty

### Certificates & Warranty

IEC61215 2016&IEC61730 2023



Module Electrical Data(STC)

Max. Power (W)	425	430	435	440	445	450
Max. Power Voltage Vmp (V)	28.58	28.81	29.04	29.27	29.50	29.73
Max. Power Current Imp (A)	14.88	14.93	14.98	15.04	15.09	15.14
Open Circuit Voltage Voc (V)	34.00	34.22	34.44	34.66	34.88	35.10
Short Circuit Current Isc (A)	15.73	15.78	15.83	15.88	15.93	15.98
Module Efficiency (%)	21.5	21.7	22.0	22.2	22.5	22.7

\*STC (Standard Test Condition): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass 1.5  
 \*Measurement Tolerance (±3.0%)

Electrical Data(NOCT)

Max. Power (W)	322	326	330	334	337	341
Max. Power Voltage Vmp (V)	27.11	27.35	27.6	27.82	27.97	28.21
Max. Power Current Imp (A)	11.88	11.92	11.96	12.01	12.05	12.09
Open Circuit Voltage Voc (V)	32.47	32.68	32.89	33.10	33.31	33.52
Short Circuit Current Isc (A)	12.69	12.73	12.77	12.81	12.85	12.89

\*NOCT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s

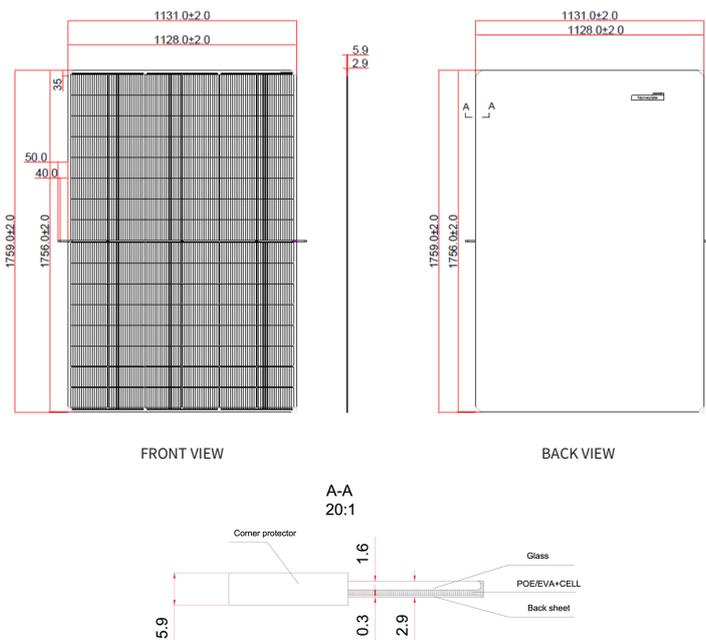
Temperature Ratings

Power Tolerance (W)	0~+5
Temperature Coefficients of γPmp (%/°C)	-0.29
Temperature Coefficients of βVoc (%/°C)	-0.25
Temperature Coefficients of αIsc (%/°C)	+0.045
Max. Over-Current (A)	25
NOCT(Nominal Operating Cell Temperature)	43±2°C

Mechanical Parameters

Cell Type (mm)	N type 182*105
NO. of Cells and Connections	96(6×16)
Dimensions(L*W*H) (mm)	1759*1131*2.9
Front AR Coated Glass (mm)	1.6
Backsheet (mm)	0.3
Weight (kg)	11.7
NO. of Diodes	3
Container 40'HQ (pcs)	52/bottom, 52/top, 104/stack, 1248/container
Container 20'GP (pcs)	52/pallet, 312/container

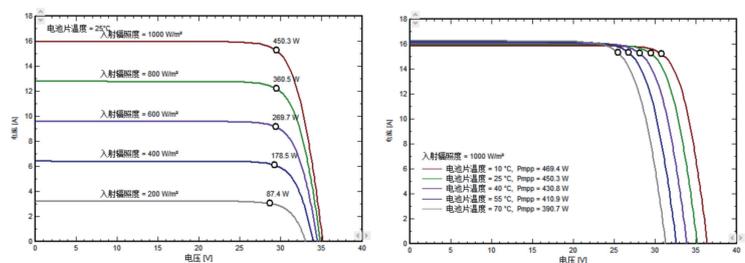
Dimensions of PV Module(mm)



Working Condition

Maximum System Voltage (V)	1500V DC
Operating Temp (°C)	-40~+85
Max. Wind Load (Pa)	1200
Max. Snow Load (Pa)	1200

Characteristic Curves(450W)



[Public Platform] [Official Web]

Cannovation Low Carbon New Energy Technology Co. Ltd

No. 186, Innovation 2 Road, Xinbei District, Changzhou City, Jiangsu Province, China, 213000

Phone: (+86) 0519-89886767-6017 / Mail: sales@cando-solar.com

Notice: All data and specifications are preliminary and subject to change without notice.

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