

# EX485-510TC(B)-108(HC)(210R)

# exiom

## N-Type 210 Rectangular Series

BACKSHEET MONOCRYSTALLINE MODULE

**510w** MAXIMUM POWER OUTPUT

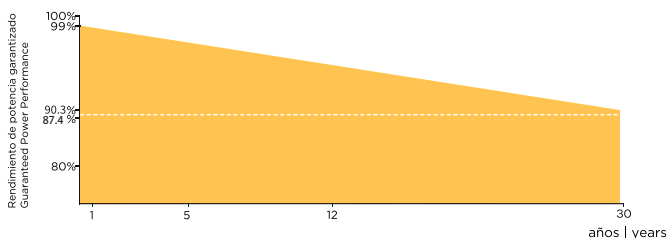
**22.9%** MAXIMUM EFFICIENCY

Exiom Solution diseña, fabrica y distribuye la más alta calidad en Energía Solar.

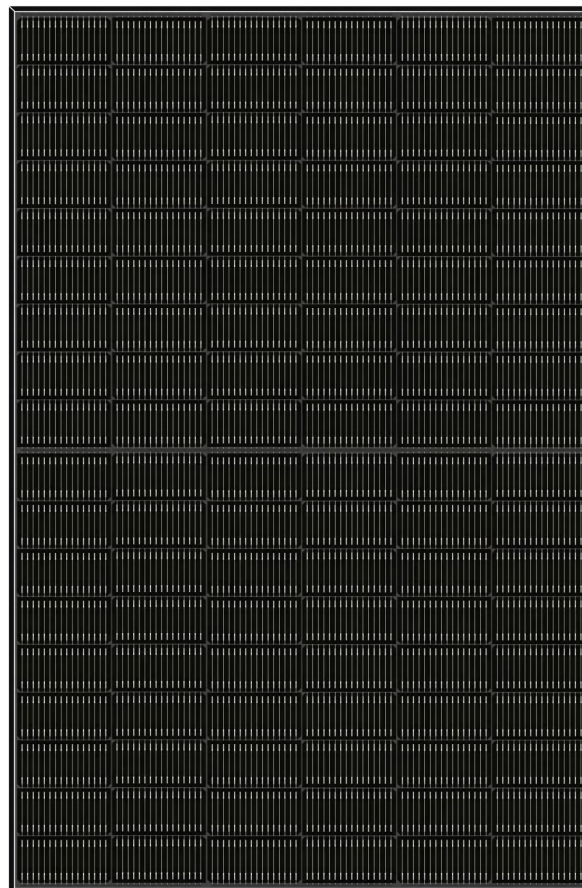
La alta eficiencia de nuestras células solares nos permite producir diferentes tipos de paneles para a su vez dar la mayor eficiencia posible a sus instalaciones.

Exiom Solution designs, manufactures and delivers high-performance solar electric technology worldwide. Our high-efficiency solar cell let us manufacture the different kinds of panels to get the most efficient in your installations.

### GARANTÍA DE RENDIMIENTO LINEAL LINEAR PERFORMANCE WARRANTY



\* First year power degradation  $\leq 1\%$   
\* Annual power degradation (2-30 year)  $\approx 0.4\%$   
\* Power output until the 30th year  $> 87.4\%$



CERTIFIED  
**IEC**  
61730 Ed.1

CERTIFIED  
**IEC**  
61215 Ed.2

✓ **Anti-PID**  
System voltage durability  
PPP 56042



## 25Years Enhanced Product Warranty on Materials and Workmanship 30Years Linear Power Performance Warranty



### High customer value

- Lower LCOE (levelized cost of energy), reduced BOS (balance of system) cost, shorter payback time
- Designed for compatibility with existing mainstream system components
- High module power, high string power and low voltage design
- Easy to handle and install on roofs with excellent size and light weight



### High reliability

- Minimized micro-cracks with innovative non-destructive cutting technology and high-density packaging
- Reduced risks of hot-spot with half-cut technology
- Mechanical performance up to 5400 Pa positive load and 2400 Pa negative load
- Sustainable in harsh environments and extreme weather conditions



### High power up to 510W

- Up to 22.9% module efficiency, on 210 innovation platform
- Patented i-TOPCon technology with continuous efficiency improvement, including contact resistance reduction, rear reflection enhancement and edge quality repairment



### High energy yield

- Excellent low irradiation performance, validated by 3rd party
- Lower temperature coefficient ( $-0.29\%/^{\circ}\text{C}$ ) and operating temperature

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Especificaciones sujetas a cambios técnicos y pruebas.  
Exiom Solution se reserva el derecho de la correcta interpretación final.  
Specifications subject to technical changes and tests.  
Exiom Solution reserves the right of final interpretation.

# EX485-510TC(B)-108(HC)(210R)

N-Type TOPCON

## ELECTRICAL DATA (STC)

Peak Power Watts-P <sub>MAX</sub> (Wp)*	485	490	495	500	505	510
Power Selection (W)**	0 ~ +5					
Maximum Power Voltage-V <sub>MPP</sub> (V)	32.7	32.9	33.1	33.3	33.5	33.7
Maximum Power Current-I <sub>MPP</sub> (A)	14.84	14.91	14.97	15.03	15.09	15.14
Open Circuit Voltage- Voc(V)	39.4	39.6	39.8	40.1	40.3	40.6
Short Circuit Current-I <sub>sc</sub> (A)	15.76	15.80	15.83	15.86	15.89	15.93
Module Efficiency η <sub>m</sub> (%)	21.8	22.0	22.3	22.5	22.7	22.9

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5. \*Measuring tolerance: ±3%. \*\*Power selection up to: +3%.

## ELECTRICAL DATA (NOCT)

Peak Power Watts-P <sub>MAX</sub> (Wp)*	371	375	378	382	386	390
Maximum Power Voltage-V <sub>MPP</sub> (V)	30.8	31.0	31.3	31.5	31.8	31.9
Maximum Power Current-I <sub>MPP</sub> (A)	12.02	12.06	12.08	12.11	12.15	12.21
Open Circuit Voltage- Voc(V)	37.4	37.6	37.7	38.0	38.3	38.5
Short Circuit Current-I <sub>sc</sub> (A)	12.70	12.74	12.76	12.78	12.81	12.84

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

## TEMPERATURE RATINGS

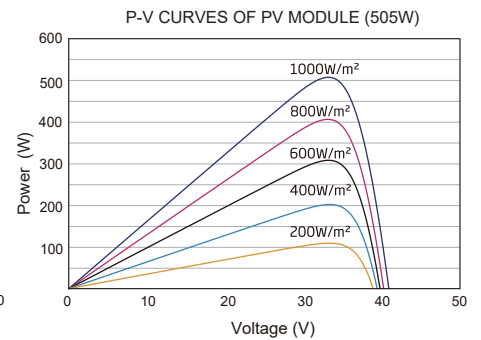
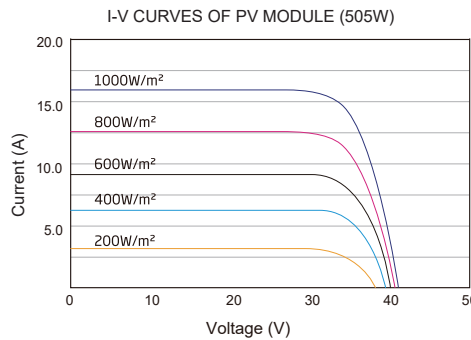
NOCT <sub>N</sub> (Nominal Operating Cell Temperature)	43°C(±2°C)
Temperature Coefficient of P <sub>MAX</sub>	-0.29%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of I <sub>sc</sub>	0.04%/°C

Due to different testing methods, the actual performances might differ from the declared specifications.

## MAXIMUM RATINGS

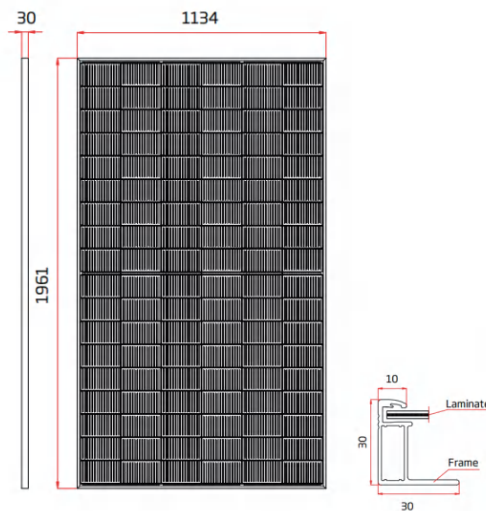
Operational Temperature	-40~+85
Maximum System Voltage	1500V DC (IEC)
Max Series Fuse Rating	30A

## CURVES OF PV MODULE



## MECHANICAL DATA

Solar Cells	N-Type 210*182 Rectangular Cell
No. of cells	108 cells
Module Dimensions	1961×1134×30 mm
Weight	25 kg
Glass	3.2 mm ,High Transmission, Tempered Glass
Frame	30mm Anodized Aluminium Alloy ,Black
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm <sup>2</sup> Length can be customized
Connector	MC4 compatible or EVO2
Packaging	Modules per box: 36 pieces Modules per 40' container: 864 pieces



Front View