

EFFICIENT POWER GENERATION PURSUIT OF EXCELLENCE

ZY-HD-425-435-GCMD N-TOPCON Double-glass module

Mono-crystalline series module, the selection of the best quality N-type mono crystal cell and production process. Professional technology and reliable quality, provide excellent guarantee for the system power generation .



Low loss design

The new generation of mono crystal series products achieve high power output by reducing resistance losses.



High power density

The new generation of mono crystalline series products achieves high power output by reducing resistance loss.



High temperature resistance

Double glass module have stronger wear resistance and corrosion resistance,with almost zero water permeability. The fire resistance level has also been upgraded from C level of ordinary crystalline silicon module to A level.



Weak light absorption

Not only absorbing straight light, but also having excellent low radiation performance, Topcon extends the power generation time.

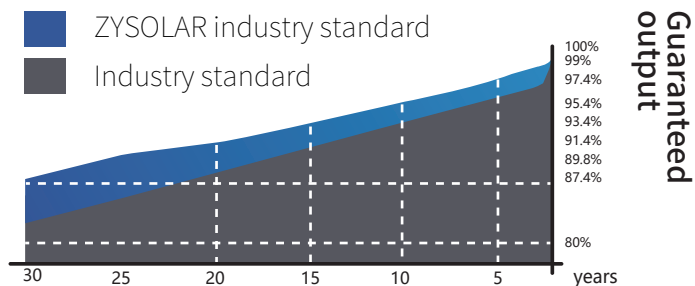
0-5W Plus tolerance

12 years Product warranty

30 years Linear power guarantee

QUALIFICATION AND CERTIFICATION

IEC 61215, IEC 61730, CE, CQC
 ISO 9001: 2015; ISO 14001: 2015;
 ISO 45001: 2018



Electrical performance parameters under standard test conditions (STC)

Peak power	Pmax	425Wp	430Wp	435Wp
Optimum operating current	Vmp	31.38V	31.47V	31.57V
Optimum operating voltage	Imp	13.544A	13.664A	13.779A
Open-circuit voltage	Voc	37.96V	38.13V	38.3V
Short-circuit current	Isc	14.13A	14.17A	14.21A
Component efficiency	%	21.76%	22.02%	22.28%
Working temperature fan guo	°C	-40°C ~ +85°C		
Maximum system voltage	IEC	1000/1500VDC (IEC)		
Maximum rated fuse current	A	25A		
Output power tolerance	%	0 ~ +5%		

Configuration parameter

Cell type	N-type mono-crystal cell
Maximum number of insured half-piece batteries	108 (2*54)
Length	1722mm
Height	1134mm
Thickness	30mm
Weight	24.5kg
Upper surface glass material	2.0 mm, high-permeable coated glass
Frame	Anodized aluminum alloy
Connecting box	Protection level: IP68
Output wire	TüV1×4.0mm ²
Lead length	(+): 300mm, (-): 300mm; or customized

Flat-bed car transport loading capacity

Motorcycle type	Number of loading
40 HQ	26 pallet/car 936 pieces/car

Package standard

Size per carrier (mm)	Each pack of modules
1758*1140*1300	36 pieces/pallet

*logistics company shall be subject to it, and it is for the unit: mm reference only.

Temperature characteristic

Pmax temperature	Pmax	-0.29%/°C
Voc temperature	Voc	-0.25%/°C
Isc temperature	Isc	0.045%/°C
NOCT	NOCT	45±2 °C

*Due to ongoing innovation, research and product upgrades, the contents of this product specification are subject to change without prior notice, these contents may be slightly deviated, and their contents are not guaranteed.

*This data is not specific to a single module, nor is it part of the sale, but is used to compare different models of module. When it comes to technical changes and specific explanations of test conditions, the Company reserves the right of final interpretation.