



Demand

HIGH

ENERGY YIELD
RELIABILITY
DURABILITY

**N-TYPE TOPCON PV MODULES
HALF-CELLS MONO-FACIAL
FULL BLACK**

420W - 430W

**108
HALF
CELLS**



30
years
Performance
Guarantee

30
years
Product
Warranty

FULL BLACK

Half-Cell N-Type TOPCon Monofacial Module

DEMAND Series 420W-430W

Mechanical and design specification

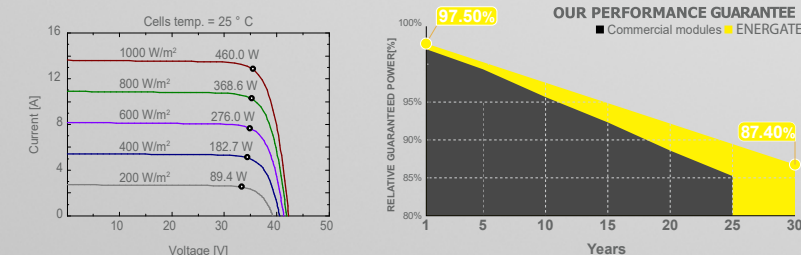
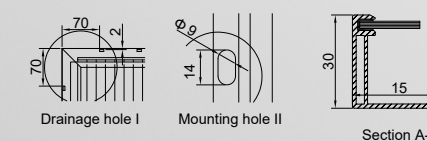
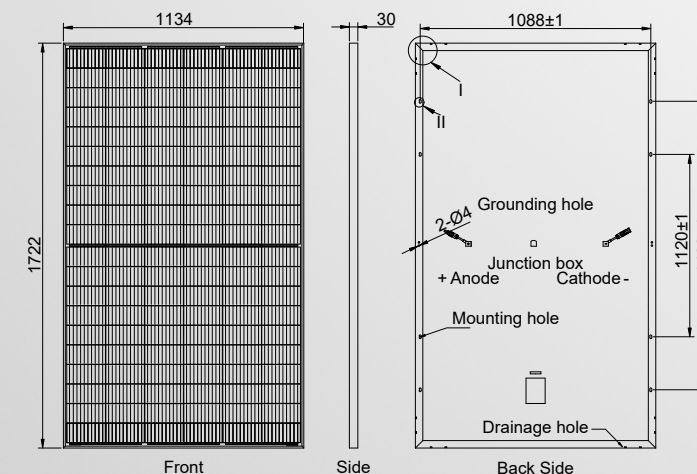
Cell type	N-Type TOPCon, Half-cut cells, 182 mm
No. of cells	108
Glass	2.0 mm, high transmission, AR coated, tempered
Encapsulation	POE or EPE
Back cover	2.0 mm, high transmission, semi- tempered
Junction box	IP 68 rated
Frame	30 mm anodized Aluminium alloy
Cable	1 x 4 mm ² , 350 mm length or customized
Connectors	MC 4 / MC 4 compatible
Dimension	1772 mm x 1134mm x 30 mm
Weight	24 kg
Hail resistance	Max. Ø 25 mm at 23 m/s
Wind load	2400 Pa/ 244 kg/ m ²
Mechanical load	5400 Pa/ 550 kg/ m ²

Packaging information

Packaging configuration	36 pcs per pallet
Loading capacity	864 pcs / 40 HQ
Size / Pallet	1950mm x 1140 mm x 2600 mm
Weight	20.976 kg / 40 HQ

Temperature ratings

Operating temperature	(°C)	-40 to +85
Temp.coefficient of P _{max}	(%/°C)	-0.35
Temp.coefficient of V _{oc}	(%/°C)	-0.275
Temp.coefficient of I _{sc}	(%/°C)	0.045
Nom. operating temp. NOCT	(°C)	45 ± 2



Electrical specifications (STC*):		EGD-420-TC-FB	EGD-425-TC-FB	EGD-430-TC-FB
Nominal Max. Power	P _{max} (Wp)	420	425	430
Maximum operating voltage	V _{MPP} (V)	31.90	32.10	32.30
Maximum operating current	I _{MPP} (A)	13.17	13.24	13.32
Open-circuit voltage	V _{oc} (V)	38.50	38.70	38.90
Short-circuit current	I _{sc} (A)	13.83	13.91	13.99
Module efficiency	η (%)	21.51	21.76	22.02
Power tolerance	(W)		0~+3	
Maximum system Voltage	(V)		1500	
Maximum series fuse rating	(A)		30	

*STC: Standard test conditions (Irradiance 1000 W/m², Cell temperature 25°C and air mass of AM1.5)

Electrical specifications (NMOT*):		EGD-420-TC-FB	EGD-425-TC-FB	EGD-430-TC-FB
Nominal Max. Power	P _{max} (Wp)	316	320	324
Maximum operating voltage	V _{MPP} (V)	29.99	30.21	30.41
Maximum operating current	I _{MPP} (A)	10.54	10.59	10.66
Open-circuit voltage	V _{oc} (V)	36.58	36.77	36.96
Short-circuit current	I _{sc} (A)	11.06	11.13	11.19

*NMOT: Normal Module Operating Temperature (Irradiance 800 W/m², Ambient temperature 20°C, air mass of AM1.5 and wind speed of 1 m/s)

The specifications and characteristics contained in this datasheet may deviate slightly from our actual products due to the product developments and uncertainty of measurement devices.
The specifications included in the datasheet are subject to change without prior notice.



IEC 61215
IEC 61730
Regular Production Surveillance
Type Tested and Monitored

IEC 62716 (Ammonia corrosion)
IEC 61701 (Salt mist corrosion)
IEC 60068 (Sand and dust)
IEC 62804 (PID resistance)



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