

HIGH

ENERGY YIELD
RELIABILITY
DURABILITY

N-TYPE TOPCON TECHNOLOGY PV MODULES
HALF CELLS MONO-FACIAL

410W-430W

108
HALF
CELLS

LID
RESISTANT

PID
RESISTANT

SALT CORROSION
RESISTANT

SAND
RESISTANT

NH₃
AMMONIA
RESISTANT

HIGHLY STABLE
AND TOUGH

30
Years
Performance
Guarantee

15
Years
Product
Warranty

N-TYPE TOPCON TECHNOLOGY PV MODULES

EG TC-108 Series
410W-430W

Mechanical and design specification

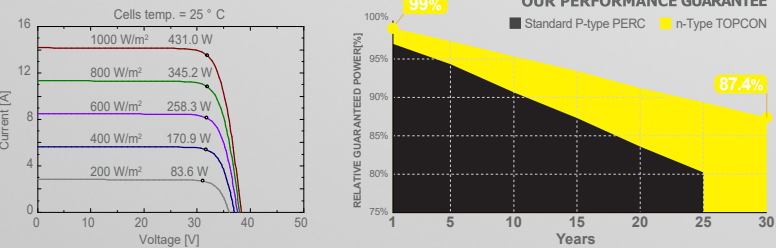
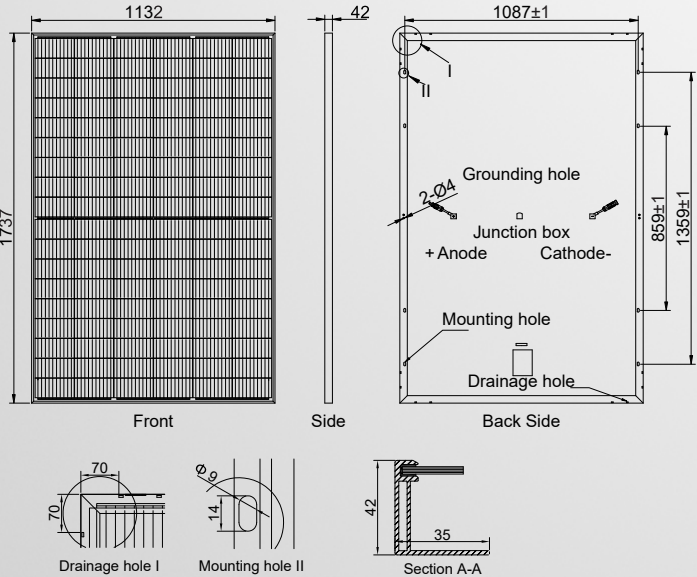
Cell type	N-type TOPCon Technology, Half-cut cells, 182 mm
No. of cells	108
Glass	3.2 mm, high transmission, AR coated, tempered
Encapsulation	EVA
Back cover	White Backsheet
Junction box	IP68, 3 Bypass Diodes
Frame	42 mm anodized Aluminium alloy
Cable	1 x 4 mm ² , 350 mm lenght or customized
Connectors	MC 4 / MC 4 compatible
Dimension	1737 mm x 1132 mm x 42 mm
Weight	21 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	54 pcs / double palets
Loading capacity	702 pcs / 40 HQ
Size / Double palets	1755 mm x 1140 mm x 2490 mm
Weight	1572 kg / double palets

Temperature ratings

Operating temperature	(°C)	-40 to +85
Temp.coefficient of P _{max}	(%/°C)	-0.3
Temp.coefficient of V _{oc}	(%/°C)	-0.25
Temp.coefficient of I _{sc}	(%/°C)	0.045
Nom. operating temp. NOCT	(°C)	42 ± 2



Electrical specifications (STC*):		EG-108TC 410W	EG-108TC 415W	EG-108TC 420W	EG-108TC 425W	EG-108TC 430W
Nominal Max. Power	P _{max} (Wp)	410	415	420	425	430
Maximum operating voltage	V _{MPP} (V)	31.61	31.83	32.07	32.24	32.44
Maximum operating current	I _{MPP} (A)	12.99	13.06	13.12	13.20	13.28
Open-circuit voltage	V _{oc} (V)	37.49	37.71	37.91	38.11	38.29
Short-circuit current	I _{sc} (A)	13.87	13.94	14.01	14.08	14.15
Module efficiency	η (%)	21.03	21.28	21.54	21.80	22.05
Power tolerance	(W)	0~+5				
Maximum system Voltage	(V)	1500				
Maximum series fuse rating	(A)	25				

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

Electrical specifications (NMOT*):		EG-108TC 410W	EG-108TC 415W	EG-108TC 420W	EG-108TC 425W	EG-108TC 430W
Nominal Max. Power	P _{max} (Wp)	312.2	316.0	320.0	323.5	327.1
Maximum operating voltage	V _{MPP} (V)	29.65	29.73	29.79	29.89	30.13
Maximum operating current	I _{MPP} (A)	10.53	10.63	10.75	10.83	10.86
Open-circuit voltage	V _{oc} (V)	35.11	35.41	35.44	36.04	36.49
Short-circuit current	I _{sc} (A)	11.28	11.32	11.42	11.26	11.34

*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)

