

STAR Pro SERIES N-TOPCon 108-cell MODULE BIFACIAL

EG-445NT54-HL/BF-DG

425~445W

0~3% POSITIVE TOLERANCE

KEY FEATURES



SMBB cell design
Super multi Busbar cells bring lower resistance and increased Busbar reflectance ensures higher power output



Low degradation
Adopt N-Type TOPCon cell technology, lower degradation and better temperature co-efficiency, greatly increased on generation performance



High Reliability
Strict in-house testing in PV Lab which is CNAS approved & TUV /VDE certified



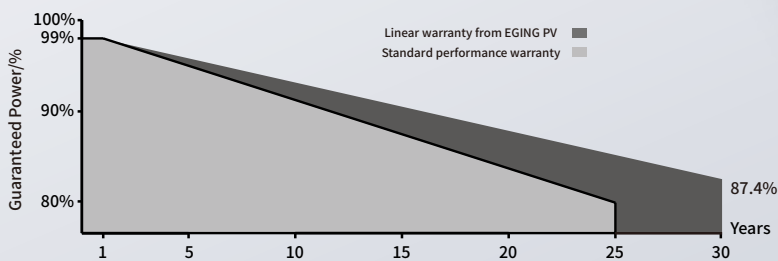
Excellent Low-light Performance
Advanced solar cell and glass surface texturing technology allows for excellent performance in low-light environments



PID Resistant
Excellent PID resistance performance optimized by unique structural design

LINEAR PERFORMANCE WARRANTY

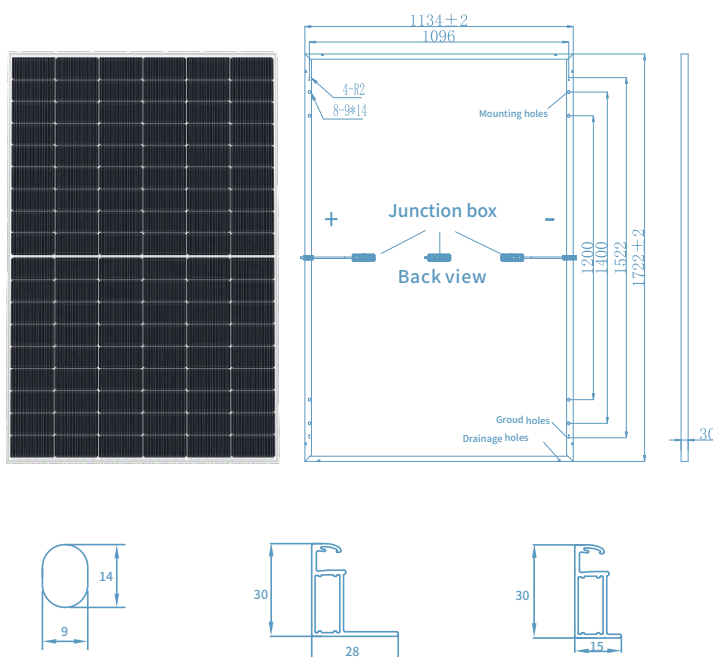
15 15 Year Product Warranty **30** 30 Year Linear Power Warranty



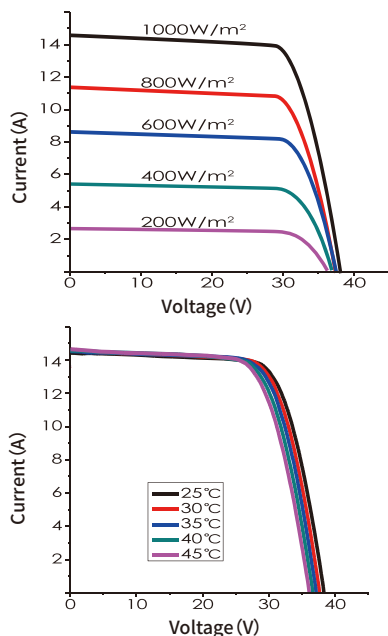
As a BloombergNEF Tier 1 and global leading manufacturer since 1998, EGING PV is committed to supplying reliable and durable PV products to customers to create together a greener planet.

EG-445NT54-HL/BF-DG

Engineering Drawings



I-V Curves



Packing Configuration

Pieces per pallet	36
Size of packing (mm)	1750*1135*1255
Weight of packing (kg)	916
Pieces per container	936
Size of container	40' HC

Electrical Characteristics(STC)

Power level	425	430	435	440	445
Pmax (W)	425	430	435	440	445
Vmp (V)	31.65	31.83	32.01	32.19	32.37
Imp (A)	13.43	13.51	13.59	13.67	13.75
Voc (V)	38.21	38.39	38.57	38.75	38.93
Isc (A)	14.24	14.32	14.40	14.48	14.57
Module efficiency (%)	21.8	22.0	22.3	22.5	22.8
Maximum system voltage (V)	1500				
Fuse Rating (A)	30				
Temperature coefficient Pmax (%/°C)	-0.29				
Temperature coefficient Isc (%/°C)	0.046				
Temperature coefficient Voc (%/°C)	-0.24				

STC: Irradiance 1000W/m², module temperature 25°C, AM=1.5

Bifacial Output-Backside Power Gain

	Pmax(W)	468	473	479	484	490
10%	Module efficiency (%)	24.0	24.2	24.5	24.8	25.1
20%	Pmax(W)	510	516	522	528	537
	Module efficiency (%)	26.1	26.4	26.7	27.0	27.4

Working Characteristics(NOCT)

Power level	425	430	435	440	445
Pmax (W)	320	323	327	331	335
Vmp (V)	29.36	29.45	29.65	29.82	30.02
Imp (A)	10.90	10.97	11.03	11.10	11.16
Voc (V)	36.22	36.39	36.55	36.73	36.93
Isc (A)	11.56	11.62	11.69	11.76	11.82
Power tolerance (%)	0~+3				
NOCT (°C)	44±2				

NOCT: Conditions: Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s

Working Characteristics (BNPI)

Pmax (W)	470	476	481	487	493
Voc (V)	38.23	38.40	38.58	38.76	38.95
Isc (A)	15.77	15.86	15.95	16.04	16.14
Tolerance (%)	Pmax: ±3% Binning: ±5W Voc: ±5% Isc: ±5%				

BNPI: Front Irradiance 1000W/m², Rear Irradiance 135W/m², module temperature 25°C, AM=1.5
Bifaciality: Pmax 80%±10%, φVoc 98%±2%, φIsc 80%±10%

Mechanical Characteristics

Number of cells	108pcs
Size of cell (mm)	182*91
Type of cell	N-type Mono
Thickness of glass (mm)	2.0
Type of frame	Anodized aluminum alloy
Junction box	IP68
Size of module (mm)	1722*1134*30
Weight (kg)	24.2
Cables/connectors	4mm², MC4 compatible
Length of Cable	Portrait: +300mm/-300mm

Maximum Ratings

Operating Temperature (°C)	-40~85
Operating humidity (%RH)	5~85
Allowable Hail Load	25mm ice-ball with velocity of 23m/s

Revised in May 2025 1st Edition*

CAUTION: All rights and explain reserved by EGING PV.
Specifications included in this datasheet are subject to change without notice.
The specific content of the product warranty refers to EGING's latest warranty.



Tel: 86-519-82585880
Zip: 213213
Add: No.18, Jinwu Road, Jintan Dist,
Changzhou City, Jiangsu Province.
Email: marketing@egingpv.com
Web: www.egingpv.com