

# STAR Pro SERIES N-TOPCon 108-cell MODULE BIFACIAL

## EG-440NT54-HL/BF-DG

**440W**

OSW Specified

### 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



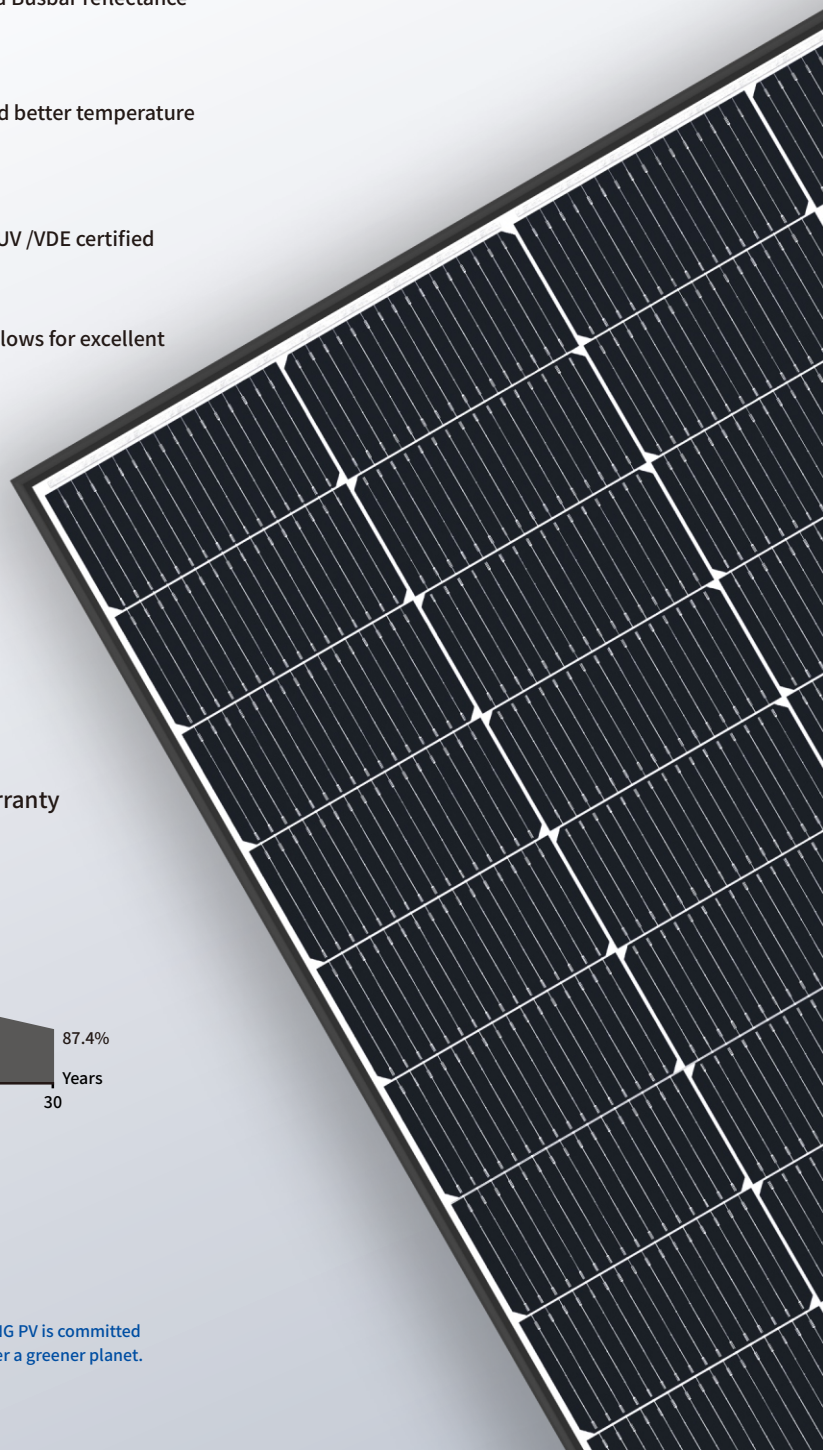
**High Reliability**  
Strict in-house testing in PV Lab which is CNAS approved & TUV /VDE certified



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

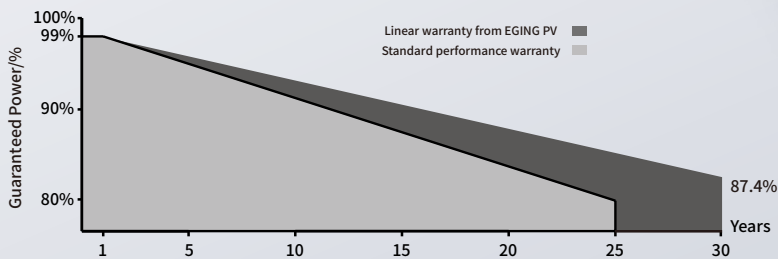


**PID Resistant**  
Excellent PID resistance performance optimized by unique structural design



### LINEAR PERFORMANCE WARRANTY

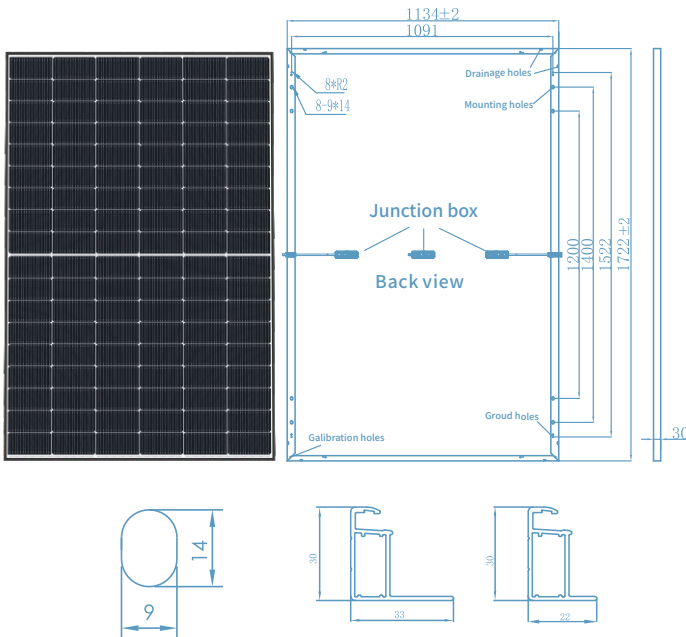
**25** 25 Year Product Warranty    **30** 30 Year Linear Power Warranty



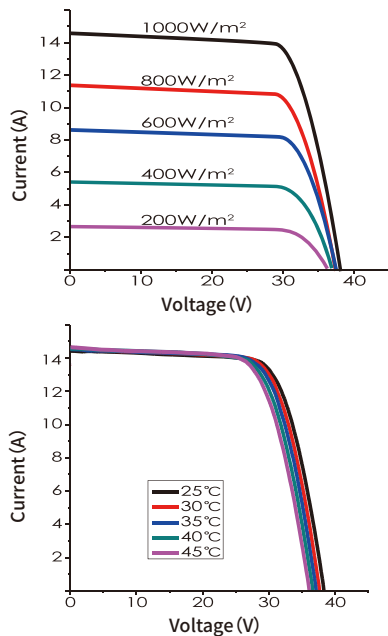
As a BloombergNEF Tier 1 and global leading manufacturer since 1998, EGING PV is committed to supplying reliable and durable PV products to customers to create together a greener planet.

# EG-440NT54-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)	772
Pieces per container	936
Size of container	40' HC

## Electrical Characteristics(STC)

Power level	440
Pmax (W)	440
Vmp (V)	32.19
Imp (A)	13.67
Voc (V)	38.75
Isc (A)	14.48
Module efficiency (%)	22.5
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/m<sup>2</sup>, module temperature 25°C, AM=1.5

Bifacial Output-Backside Power Gain

10%	Pmax(W)	484
	Module efficiency (%)	24.8
20%	Pmax(W)	528
	Module efficiency (%)	27.0

## Working Characteristics(NOCT)

Power level	440
Pmax (W)	331
Vmp (V)	29.82
Imp (A)	11.10
Voc (V)	36.73
Isc (A)	11.76
Power tolerance (%)	Pmax: ±3%
NOCT (°C)	44±2

NOCT: Conditions: Irradiance 800W/m<sup>2</sup>, ambient temperature 20°C, wind speed 1m/s

## Working Characteristics (BNPI)

Pmax (W)	531
Voc (V)	42.75
Isc (A)	15.80
Tolerance (%)	Pmax: ±3% Binning: ±5W Voc: ±5% Isc: ±5%

BNPI: Front Irradiance 1000W/m<sup>2</sup>, Rear Irradiance 135W/m<sup>2</sup>, 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)	1.6
Type of frame	Anodized aluminum alloy
Junction box	IP68
Size of module (mm)	1722*1134*30
Weight (kg)	20.2
Cables/connectors	62930 IEC 131, 1*4mm <sup>2</sup> /E1-X, QC4.10-cd, Z4S, RHC2xyzu
Length of Cable	Portrait: +1000mm/-1000mm

## Maximum Ratings

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



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