





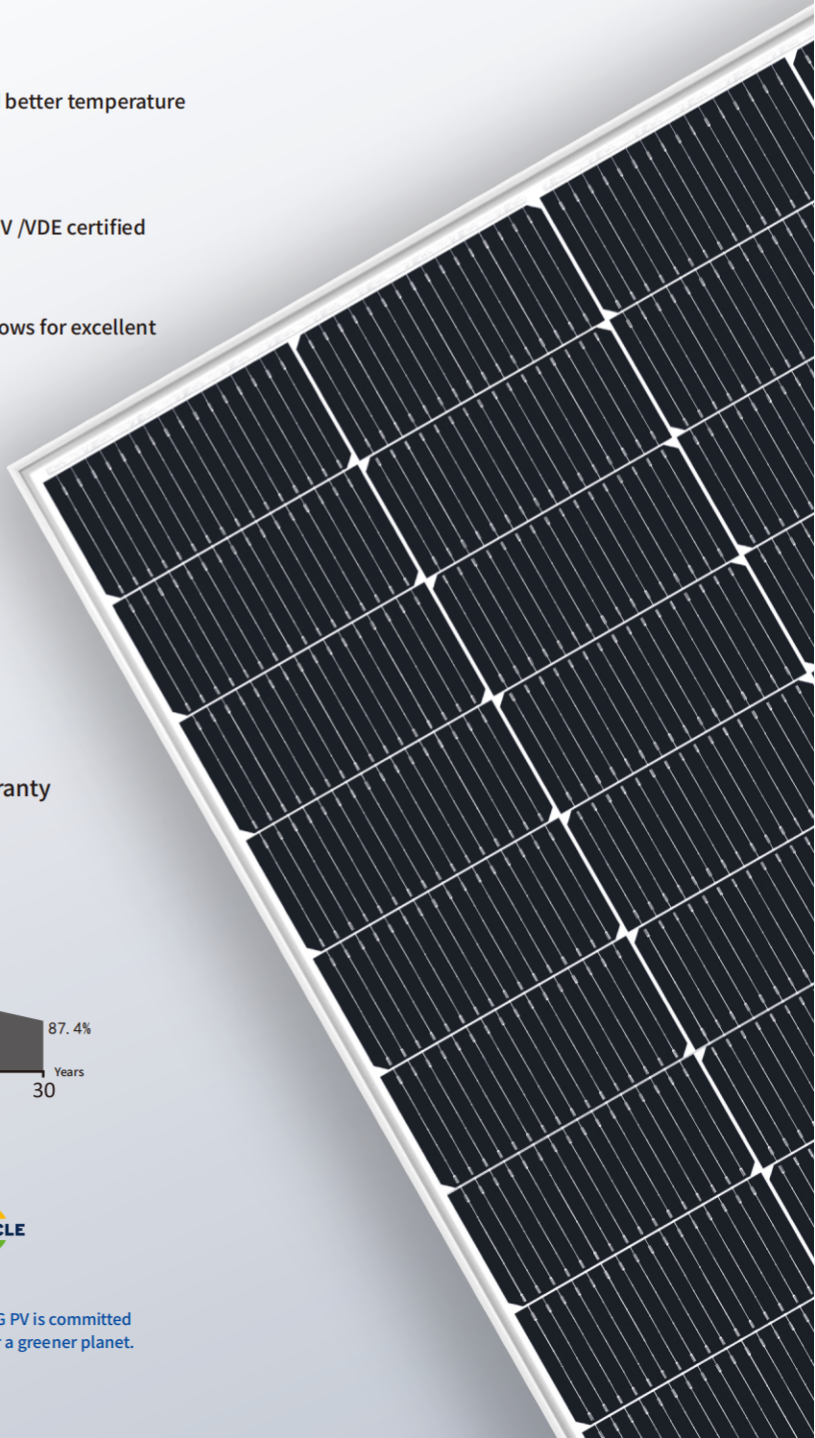
# STAR Pro SERIES N-TOPCon 108-cell MODULE

## EG-440NT54-HLV

### 415~440W

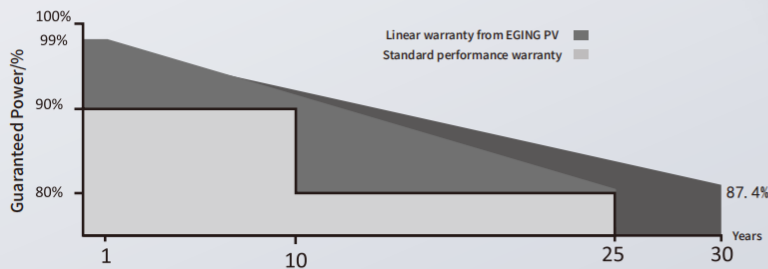
#### KEY FEATURES

- 
**SMBB cell design**  
 Super multi Busbar cells brings 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



#### LINEAR PERFORMANCE WARRANTY

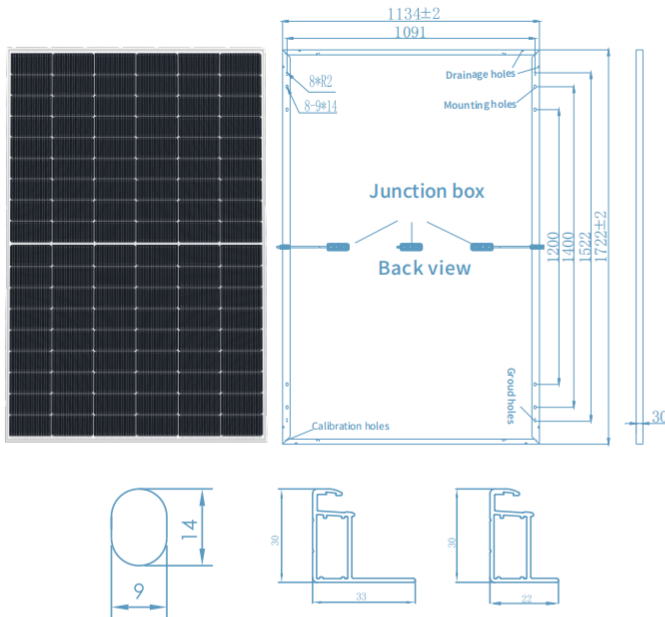
 15 Year Product Warranty  30 Year Linear Power Warranty



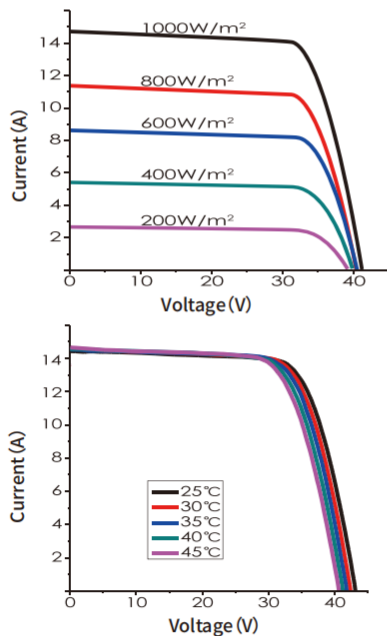
 As a BloombergNEF Tier 1 and global leading manufacturer since 1998, EGING PV is committed to supplying reliable and durable PV products to customers to create together a greener planet.

# EG-440NT54-HLV

## 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

Power level	415	420	425	430	435	440
Pmax (W)	415	420	425	430	435	440
Vmp (V)	31.33	31.51	31.70	31.88	32.06	32.24
Imp (A)	13.25	13.33	13.41	13.49	13.57	13.65
Voc (V)	37.89	38.08	38.26	38.44	38.62	38.80
Isc (A)	14.00	14.08	14.16	14.24	14.32	14.40
Module efficiency (%)	21.25	21.50	21.76	22.02	22.27	22.53
Maximum system voltage (V)	1500					
Fuse Rating (A)	25					
Temperature coefficient Pmax (%/°C)	-0.30					
Temperature coefficient Isc (%/°C)	0.046					
Temperature coefficient Voc (%/°C)	-0.25					

STC: Irradiance 1000W/m<sup>2</sup>, module temperature 25°C, AM=1.5

## Working Characteristics

Power level	415	420	425	430	435	440
Pmax (W)	312	316	320	323	327	331
Vmp (V)	29.22	29.37	29.55	29.61	29.73	29.88
Imp (A)	10.68	10.76	10.83	10.91	11.00	11.08
Voc (V)	36.00	36.17	36.35	36.53	36.75	36.86
Isc (A)	11.30	11.37	11.43	11.50	11.60	11.69
Tolerance (%)	Pmax: ±3% Binning: ±5W Voc: ±5% Isc: ±5%					
NOCT (°C)	44 ±2					

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

## Mechanical Characteristics

Number of cells	108pcs
Size of cell (mm)	182*91
Type of cell	N-type Mono
Thickness of glass (mm)	3.2
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 Cabel	Portrait: +300mm/-300mm
Fire class	Class C

## Maximum Ratings

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

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Specifications included in this datasheet are subject to change without notice.  
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