






STAR Pro SERIES N-TOPCon 108-cell MODULE

EG-NT54-HLV

425~455W

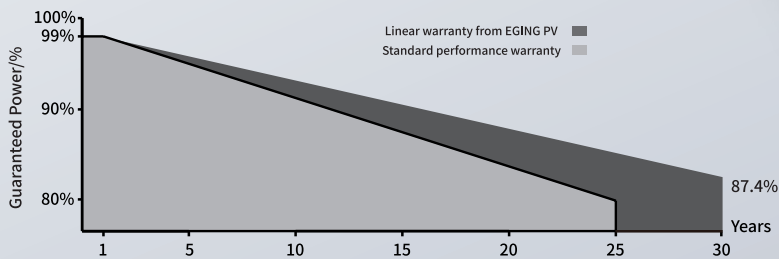
0~3% POSITIVE TOLERANCE

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

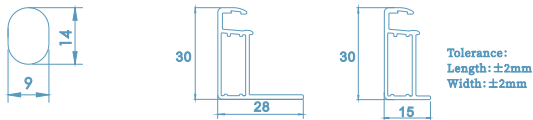
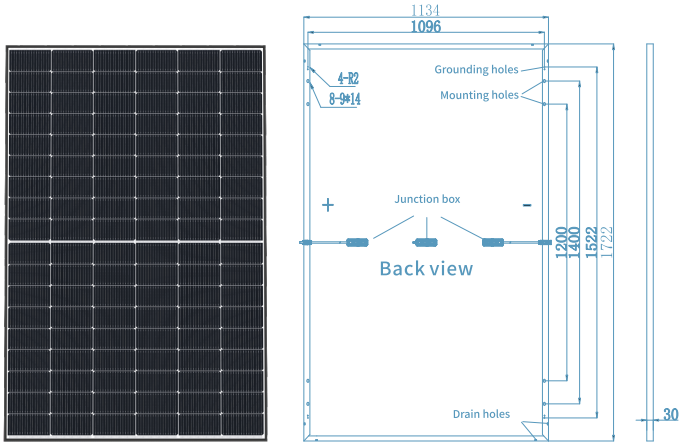
 15 Year Product Warranty  30 Year Linear Power Warranty



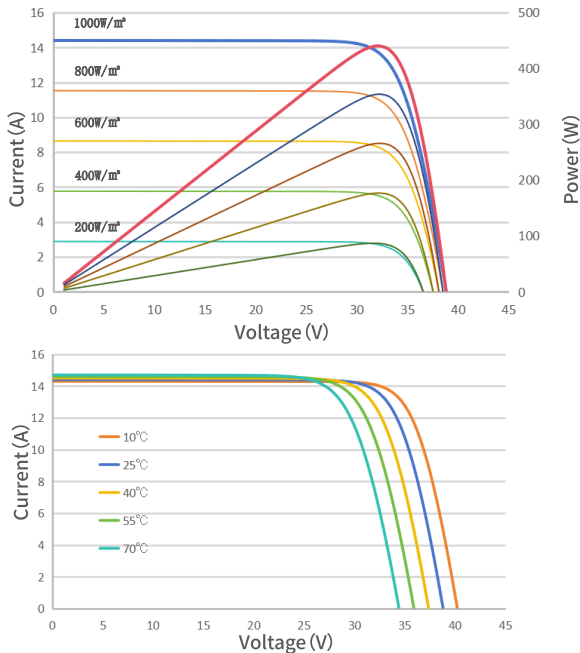
As a BloombergNEF Tier 1 and global leading manufacturer since 1998, EGING PV is committed to supplying reliable and durable PV products to customers to create together a greener planet.

EG-NT54-HLV

Engineering Drawings



I-V Curves(445W)



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)

Test uncertainty for Pmax: ±3%

Power Level	425	430	435	440	445	450	455
Pmax (W)	425	430	435	440	445	450	455
Vmp (V)	31.70	31.88	32.06	32.24	32.42	32.59	32.77
Imp (A)	13.41	13.49	13.57	13.65	13.73	13.81	13.89
Voc (V)	38.26	38.44	38.62	38.80	38.98	39.16	39.34
Isc (A)	14.16	14.24	14.32	14.40	14.48	14.56	14.64
Module Efficiency (%)	21.8	22.0	22.3	22.5	22.8	23.0	23.3
Maximum System Voltage (V)	1500						
Fuse Rating (A)	25						
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

Working Characteristics

Power Level	425	430	435	440	445	450	455
Pmax (W)	320	323	327	331	336	340	344
Vmp (V)	29.55	29.61	29.73	29.88	30.09	30.20	30.32
Imp (A)	10.83	10.91	11.00	11.08	11.17	11.25	11.33
Voc (V)	36.35	36.53	36.75	36.86	36.97	37.08	37.22
Isc (A)	11.43	11.50	11.60	11.70	11.77	11.84	11.91
Power Tolerance (%)	0~+3						
NOCT (°C)	44±2						

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

Mechanical Characteristics

Number of Cells	108pcs
Size of Cell (mm)	182*91 & 182.2*91.875
Type of Cell	N-type Mono
Front 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	4mm ² , MC4 compatible
Length of Cable	+300mm/-300mm(connector included)

Remark: customized frame color and cable length available upon request

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 March 2026 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.



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