






STAR Pro SERIES N-TOPCon 108-cell MODULE

EG-440NT54-HLV(black)

420~440W

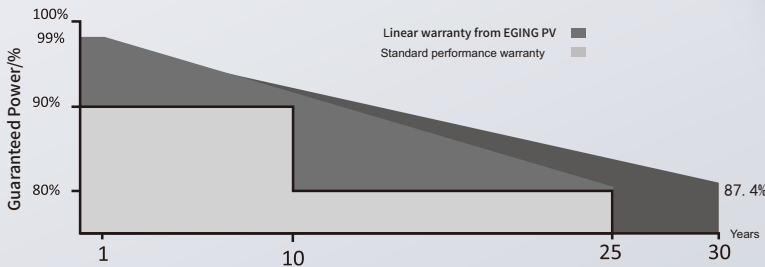
0~3% POSITIVE TOLERANCE

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

LINEAR PERFORMANCE WARRANTY

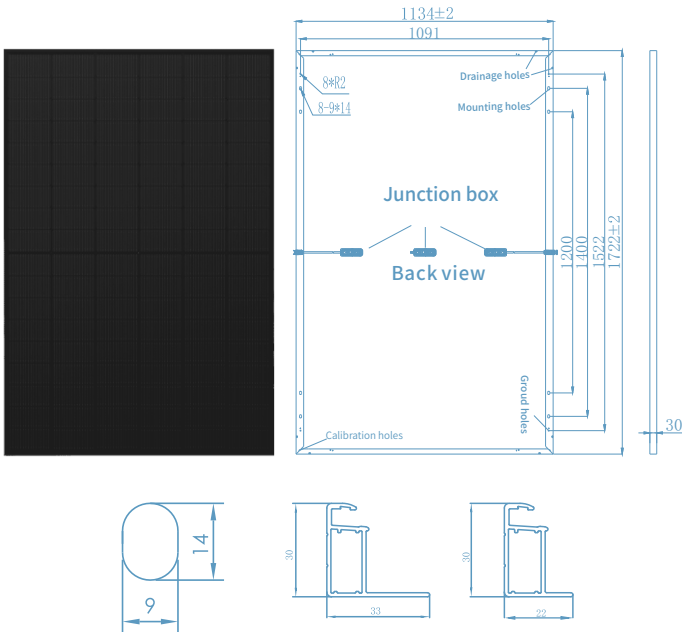
- 
15 year Product Warranty
25 Year Product Warranty
 (Optional, special for rooftop market)
- 
30 Year Linear Power Warranty



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(black)

Engineering Drawings



Electrical Characteristics

Power level	420	425	430	435	440
Pmax (W)	420	425	430	435	440
Vmp (V)	31.51	31.70	31.88	32.06	32.24
Imp (A)	13.33	13.41	13.49	13.57	13.65
Voc (V)	38.08	38.26	38.44	38.62	38.80
Isc (A)	14.08	14.16	14.24	14.32	14.4
Module efficiency (%)	21.5	21.8	22.0	22.3	22.5
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				

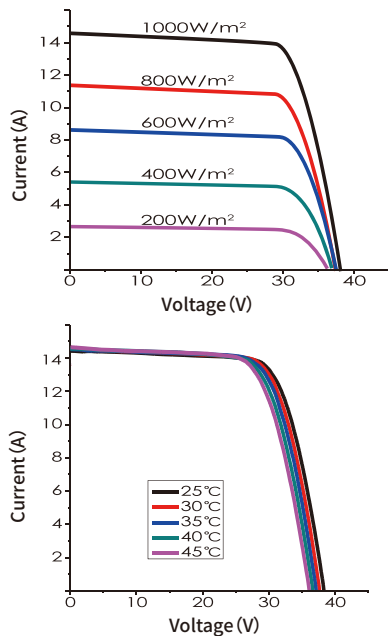
STC: Irradiance 1000W/m², module temperature 25°C, AM=1.5

Working Characteristics

Power level	420	425	430	435	440
Pmax (W)	316	320	323	327	331
Vmp (V)	29.37	29.55	29.61	29.73	29.88
Imp (A)	10.76	10.83	10.91	11.00	11.08
Voc (V)	36.17	36.35	36.53	36.75	36.86
Isc (A)	11.37	11.43	11.50	11.6	11.7
Power tolerance (%)	0~+3				
NOCT (°C)	44±2				

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

I-V Curves



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	4mm ² , MC4 compatible
Length of Cabel	Portrait: +300mm/-300mm

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

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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