






# STAR Pro<sup>+</sup> SERIES N-TOPCon 108-cell MODULE

## EG-460NT54-HRb/BF-DG

### 440-460W

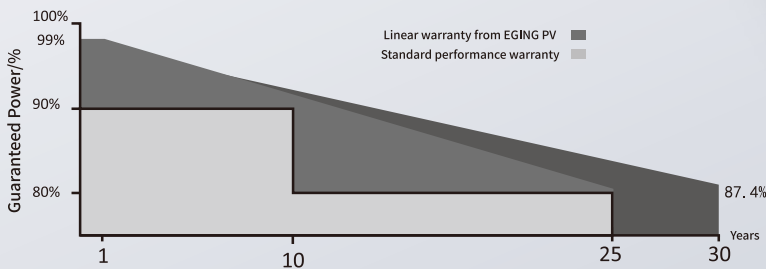
0~3% POSITIVE TOLERANCE

#### 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
- 
**Excellent Low-light Performance**  
 Advanced solar cell and glass surface texturing technology allows for excellent performance in low-light environments
- 
**PID FREE**  
 Excellent PID resistance performance optimized by unique structural design
- 
**Lower LCOE**  
 Super lower LCOE

#### LINEAR PERFORMANCE WARRANTY

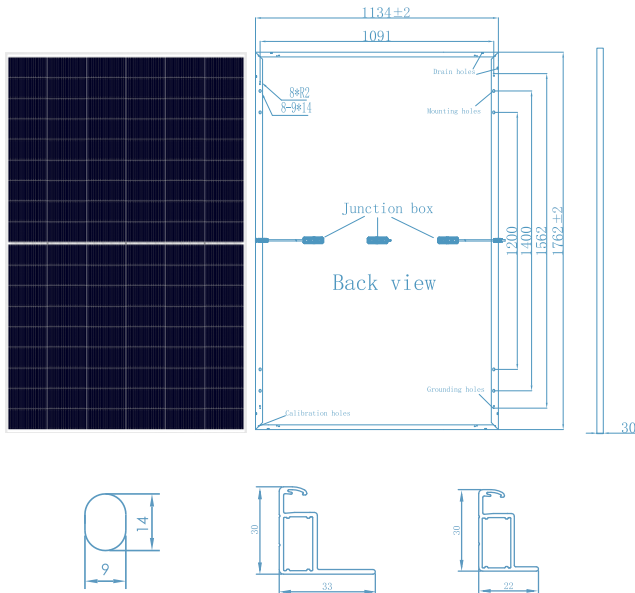
 15 Year Product Warranty  30 Year Linear Power Warranty



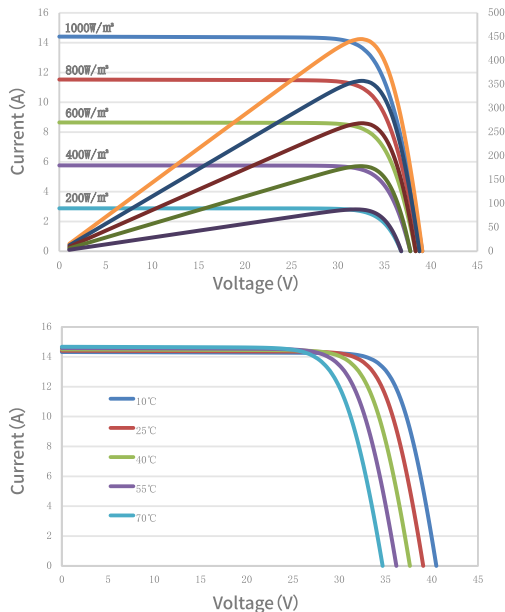
As a BloombergNEF Tier 1 and global leading manufacturer since 1998, EGING PV is committed to supplying reliable and durable PV products to customers to create together a greener planet.

# EG-460NT54-HRb/BF-DG

## Engineering Drawings



## I-V Curves



## Packing Configuration

Pieces per pallet	36
Size of packing (mm)	1790*1130*1255
Weight of packing (kg)	796
Pieces per container	936
Size of container	40'HC

## Electrical Characteristics

Power level	440	445	450	455	460
Pmax (W)	440	440	450	455	460
Vmp (V)	32.48	32.65	32.83	33.00	33.17
Imp (A)	13.55	13.63	13.71	13.79	13.87
Voc (V)	38.88	39.08	39.28	39.48	39.68
Isc (A)	14.32	14.41	14.49	14.57	14.65
Module efficiency (%)	22.0	22.3	22.5	22.8	23.0
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	490	495	501	506
	Module efficiency (%)	24.2	24.5	24.8	25.1	25.3
20%	Pmax(W)	528	534	540	546	552
	Module efficiency (%)	26.4	26.7	27.0	27.3	27.6

## Working Characteristics

Power level	440	445	450	455	460
Pmax (W)	333	337	341	345	348
Vmp (V)	30.40	30.60	30.70	30.90	31.10
Imp (A)	10.96	11.03	11.09	11.15	11.21
Voc (V)	36.70	36.90	37.10	37.30	37.50
Isc (A)	11.55	11.62	11.68	11.75	11.81
Power tolerance (%)	0~+3				
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*94
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)	1762*1134*30
Weight (kg)	21
Cables/connectors	4mm <sup>2</sup> , MC4 compatible
Length of Cabel	Portrait: +300mm/-300mm

## 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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