

# STAR Pro SERIES N-TOPCon 156-cell MODULE BIFACIAL

## EG-NT78-HL/BF-DG

### 625~645W

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



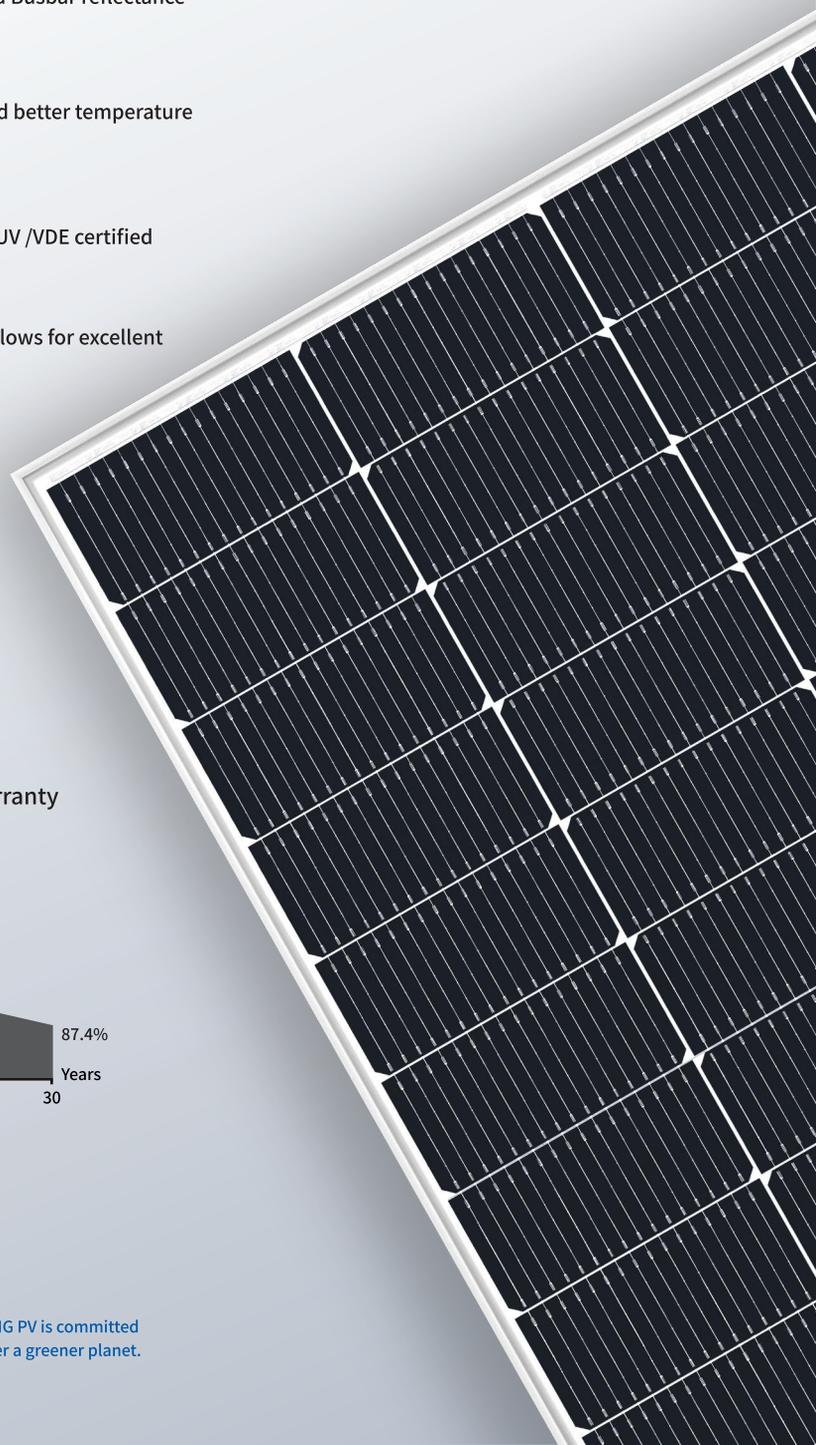
**High Reliability**  
Strict in-house testing in PV Lab which is CNAS approved & TUV /VDE certified



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

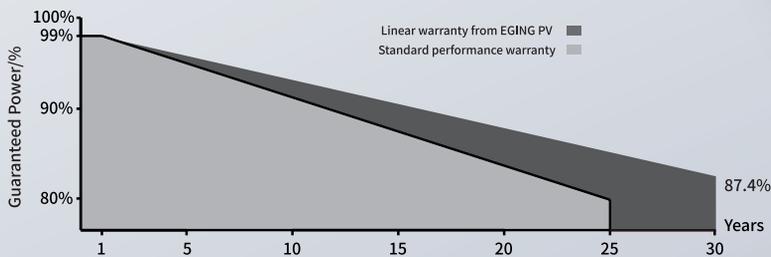


**PID Resistant**  
Excellent PID resistance performance optimized by unique structural design



### LINEAR PERFORMANCE WARRANTY

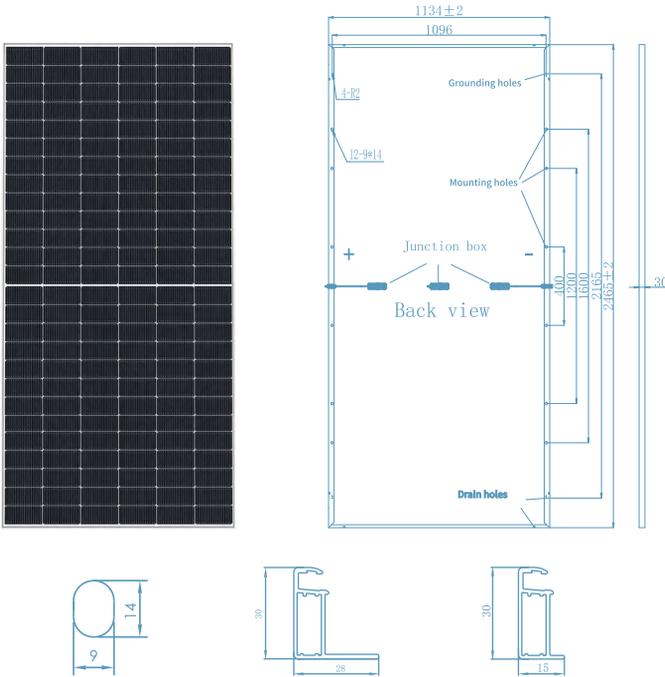
**15** 15 Year Product Warranty    **30** 30 Year Linear Power Warranty



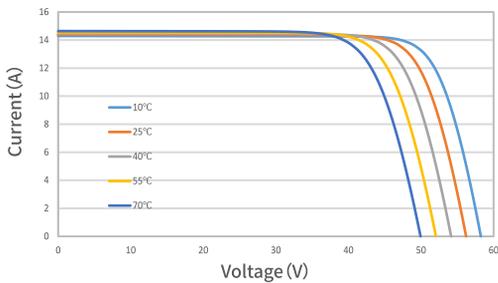
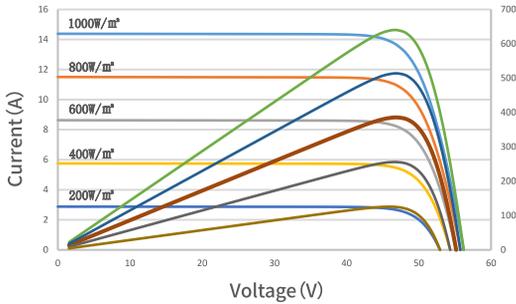
As a BloombergNEF Tier 1 and global leading manufacturer since 1998, EGING PV is committed to supplying reliable and durable PV products to customers to create together a greener planet.

# EG-NT78-HL/BF-DG

## Engineering Drawings



## I-V Curves(640W)



## Packing Configuration

Pieces per pallet	36
Size of packing (mm)	2490*1135*1255
Weight of packing (kg)	1281
Pieces per container	576
Size of container	40'HC

## Electrical Characteristics(STC)

Power level	625	630	635	640	645
Pmax (W)	625	630	635	640	645
Vmp (V)	46.03	46.19	46.36	46.52	46.68
Imp (A)	13.58	13.64	13.70	13.76	13.82
Voc (V)	55.73	55.87	56.04	56.21	56.38
Isc (A)	14.20	14.26	14.32	14.38	14.44
Module efficiency (%)	22.4	22.5	22.7	22.9	23.1
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)	688	693	699	704	710
	Module efficiency (%)	24.6	24.8	25.0	25.2	25.4
20%	Pmax(W)	750	756	762	768	774
	Module efficiency (%)	26.8	27.1	27.3	27.5	27.7

## Working Characteristics(NOCT)

Power level	625	630	635	640	645
Pmax (W)	470	474	478	481	485
Vmp (V)	42.73	42.82	42.92	43.03	43.13
Imp (A)	11.00	11.07	11.13	11.19	11.25
Voc (V)	52.97	53.07	53.20	53.33	53.46
Isc (A)	11.51	11.57	11.64	11.70	11.77
Power tolerance (%)	0~+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)	692	698	703	709	714
Voc (V)	55.75	55.89	56.06	56.23	56.40
Isc (A)	15.73	15.80	15.86	15.93	16.00
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	156pcs
Size of cell (mm)	182*91 & 182.2*91.875
Type of cell	N-type Mono
Thickness of glass (mm)	2.0
Type of frame	Anodized aluminum alloy
Junction box	IP68
Size of module (mm)	2465*1134*30
Weight (kg)	34.2
Cables/connectors	4mm <sup>2</sup> , MC4 compatible
Length of Cable	Portrait: +300mm/-300mm

## 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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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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