

AURORA Pro⁺ SERIES

N-TOPCon
96-cell MODULE BIFACIAL

EG-440NT48-HRc/BF-DG **440W** EG-445NT48-HRc/BF-DG **445W** EG-450NT48-HRc/BF-DG **450W**

EG-455NT48-HRc/BF-DG **455W** EG-460NT48-HRc/BF-DG **460W**

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



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



Lower LCOE

Super lower LCOE

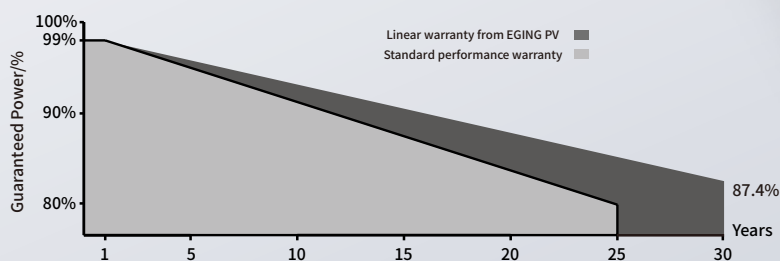
LINEAR PERFORMANCE WARRANTY



15 year Product Warranty
25 Year Product Warranty
(For rooftop installation only)

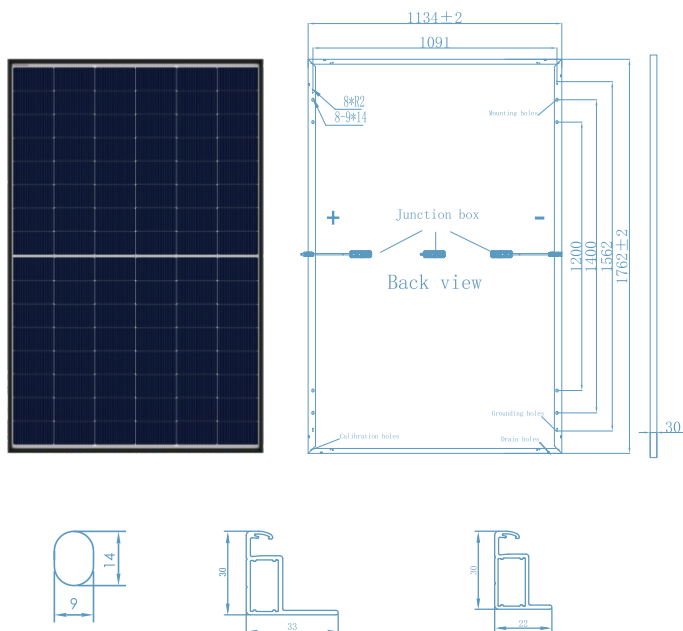


30 Year Linear Power Warranty

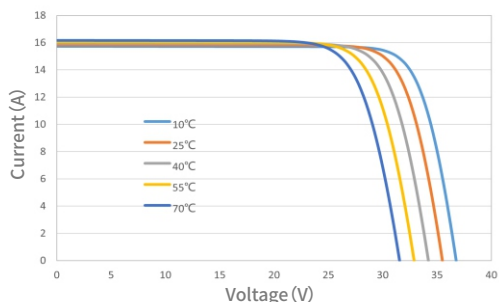
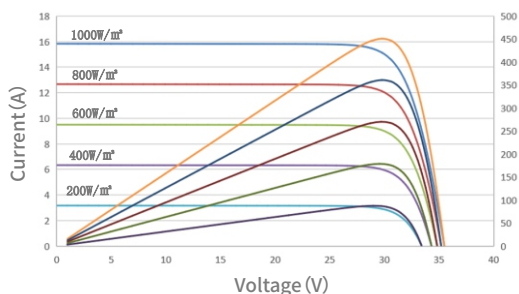


As a BloombergNEF Tier 1 and global leading manufacturer since 1998, EGING PV is committed to supplying reliable and durable PV products to customers to create together a greener planet.

Engineering Drawings



I-V Curves



Packing Configuration

Pieces per pallet	36
Size of packing (mm)	1790*1135*1255
Weight of packing (kg)	796
Pieces per container	936
Size of container	40'HC

Electrical Characteristics(STC)

Power level	440	445	450	455	460
Pmax (W)	440	445	450	455	460
Vmp (V)	29.50	29.69	29.89	30.08	30.27
Imp (A)	14.92	14.99	15.06	15.13	15.20
Voc (V)	35.04	35.23	35.42	35.61	35.80
Isc (A)	15.69	15.76	15.84	15.91	15.98
Module efficiency (%)	22.0	22.3	22.5	22.8	23.0
Maximum system voltage (V)	1500				
Fuse Rating (A)	35				
Temperature coefficient Pmax (%/°C)	-0.29				
Temperature coefficient Isc (%/°C)	0.046				
Temperature coefficient Voc (%/°C)	-0.24				
Tolerance	Pmax: ±3% Binning: 0~+5W Voc: ±5% Isc: ±5%				

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

Bifacial Output-Backside Power Gain

10%	Pmax (W)	484	490	495	501	506
	Module efficiency (%)	24.22	24.50	24.77	25.05	25.32
20%	Pmax (W)	528	534	540	546	552
	Module efficiency (%)	26.42	26.73	27.03	27.33	27.63

Working Characteristics (NOCT)

Power level	440	445	450	455	460
Pmax (W)	332	336	340	343	347
Vmp (V)	27.69	27.86	28.03	28.20	28.37
Imp (A)	12.00	12.06	12.12	12.18	12.24
Voc (V)	33.14	33.30	33.47	33.63	33.79
Isc (A)	12.65	12.71	12.76	12.82	12.88
Tolerance	Pmax: ±3% Binning: 0~+5W Voc: ±5% Isc: ±5%				
NOCT (°C)	44±2				

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

Working Characteristics (BNPI)

Pmax (W)	488	493	499	504	510
Voc (V)	35.05	35.25	35.43	35.62	35.81
Isc (A)	17.38	17.46	17.55	17.63	17.71
Tolerance	Pmax: ±3% Binning: 0~+5W Voc: ±5% Isc: ±5%				

BNPI: Front Irradiance 1000W/m², Rear Irradiance 135W/m², module temperature 25°C, AM=1.5

Bifaciality: Pmax 80% ± 10%, Isc 80% ± 10%, φVoc 98% ± 2%

Mechanical Characteristics

Number of cells	96pcs	
Size of cell (mm)	182.2*105	
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	
Connectors	E1-X-abcd	Changzhou Eging Photovoltaic Tech. Co., Ltd.
-manufacture	Z4S-abcde	Zerun Co. Ltd.
	C2xyz	Jiangsu Holysun Electronics Technology Co., Ltd.
	PV-HT03x	Jiangsu Haitian Microelectronics Corp.
	PV-KST4-EVO2/xy_UR	Staubli Electrical Connectors AG
	PV-KBT4-EVO2/xy_UR	
Length of Cable	+300mm/-300mm	
Fire rating	Class c	
Country of manufacture	China	

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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