

AURORA Pro⁺ SERIES

N-TOPCon
96-cell MODULE BIFACIAL

EG-460NT48-HRc/BF-DG

440~460W

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



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



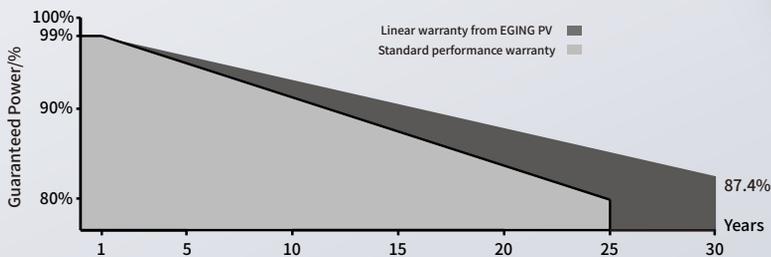
PID Resistant
Excellent PID resistance performance optimized by unique structural design



Lower LCOE
Super lower LCOE

LINEAR PERFORMANCE WARRANTY

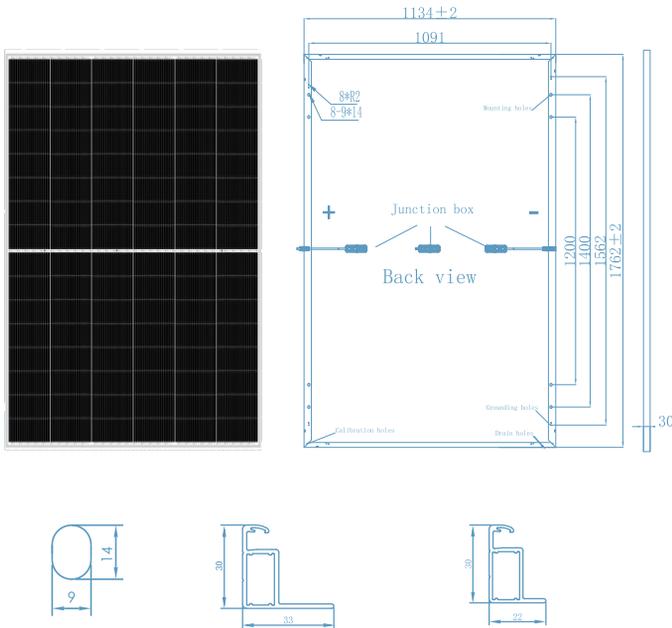
 15 Year Product Warranty  30 Year Linear Power Warranty



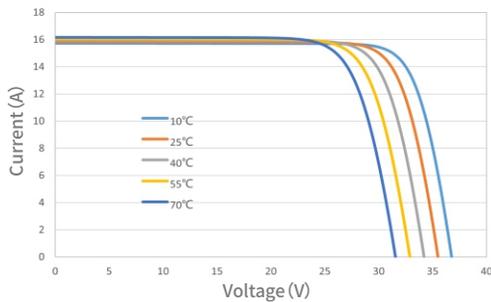
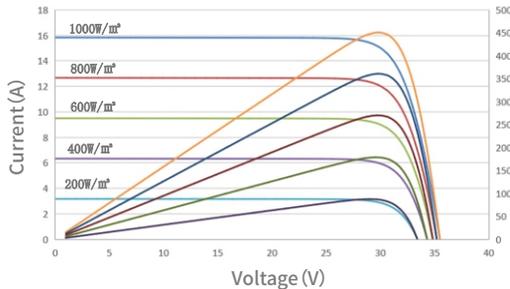
As a BloombergNEF Tier 1 and global leading manufacturer since 1998, EGING PV is committed to supplying reliable and durable PV products to customers to create together a greener planet.

EG-460NT48-HRc/BF-DG

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 | | | | |

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 |
| Power tolerance (%) | 0~+3 | | | | |
| 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: ±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%, φVoc 98% ±2%, φIsc 80% ±10%

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 |
| Cables/connectors | 4mm², 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.