

AURORA Pro⁺ SERIES

N-TOPCon
108-cell MODULE BIFACIAL

EG-510NT54-HRc/BF-DG

490~510W

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

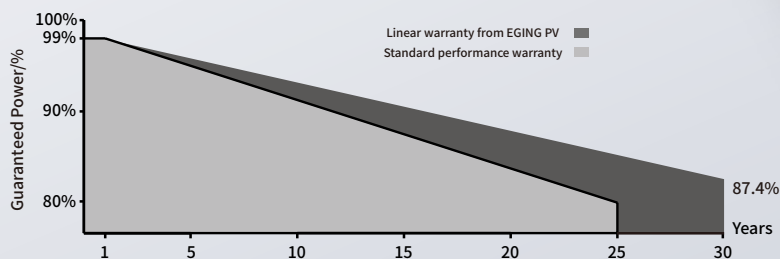


Lower LCOE

Super lower LCOE

LINEAR PERFORMANCE WARRANTY

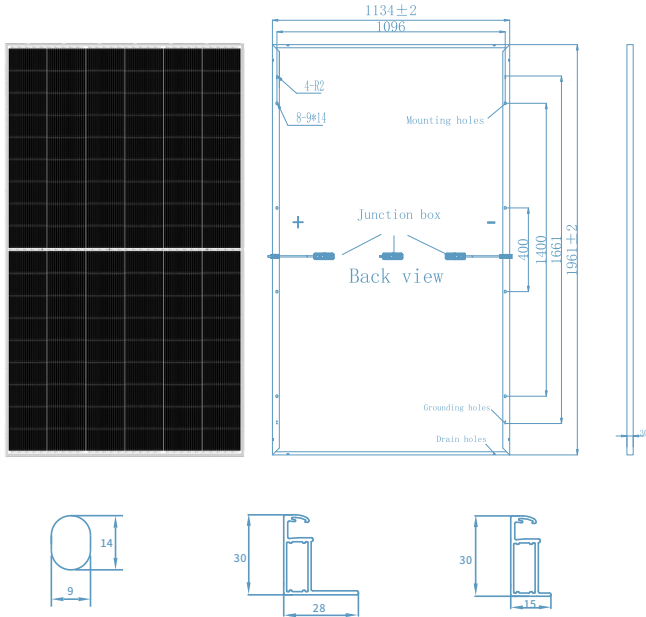
15 15 Year Product Warranty **30** 30 Year Linear Power Warranty



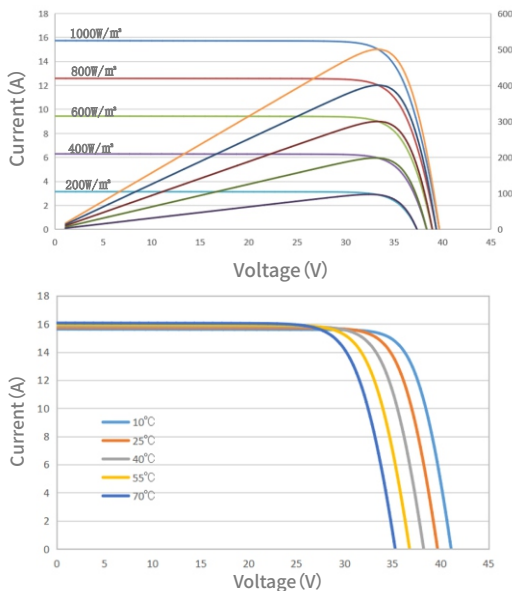
As a BloombergNEF Tier 1 and global leading manufacturer since 1998, EGING PV is committed to supplying reliable and durable PV products to customers to create together a greener planet.

EG-510NT54-HRc/BF-DG

Engineering Drawings



I-V Curves



Packing Configuration

Pieces per pallet	36
Size of packing (mm)	1986*1135*1255
Weight of packing (kg)	1049
Pieces per container	792
Size of container	40'HC

Electrical Characteristics(STC)

Power level	490	495	500	505	510
Pmax (W)	490	495	500	505	510
Vmp (V)	33.11	33.29	33.47	33.65	33.83
Imp (A)	14.80	14.87	14.94	15.01	15.08
Voc (V)	39.33	39.50	39.67	39.84	40.01
Isc (A)	15.61	15.67	15.73	15.79	15.85
Module efficiency (%)	22.0	22.3	22.5	22.7	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)	539	545	550	556	561
	Module efficiency (%)	24.24	24.49	24.73	24.98	25.23
20%	Pmax(W)	588	594	600	606	612
	Module efficiency (%)	26.44	26.71	26.98	27.25	27.52

Working Characteristics(NOCT)

Power level	490	495	500	505	510
Pmax (W)	370	374	378	381	385
Vmp (V)	31.00	31.18	31.35	31.53	31.70
Imp (A)	11.93	11.99	12.04	12.10	12.15
Voc (V)	37.16	37.33	37.49	37.66	37.82
Isc (A)	12.58	12.63	12.68	12.73	12.78
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)	543	548	554	560	565
Voc (V)	39.35	39.52	39.69	39.85	40.02
Isc (A)	17.30	17.36	17.43	17.50	17.56
Tolerance (%)	Pmax:±3% Binning:±5W Voc:±5% Isc:±5%				

BNPI:Front Irradiance1000W/m²,Rear Irradiance 135W/m², module temperature25°C, AM=1.5
Bifaciality:Pmax80%±10%,φVoc98%±2%,φIsc80%±10%

Mechanical Characteristics

Number of cells	108pcs
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)	1961*1134*30
Weight (kg)	27.9
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.