

N-Type CleanEdge GSD8R48T [430-455W]

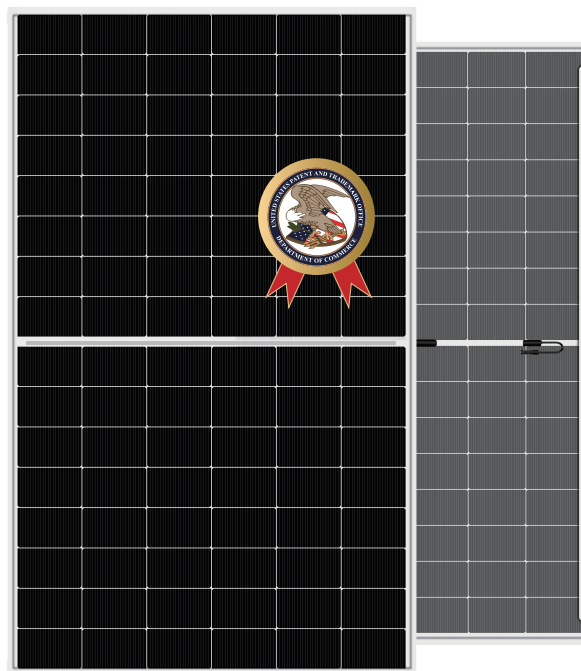
CleanEdge TOPCON Bifacial Module

IEC 61215 / IEC 61730 / UL 61730

ISO9001: 2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018: Occupational Health And Safety Management System



KEY FEATURES



CleanEdge

No water and dust, which reduces the power loss, increases power generation by 6-15%



Lower Attenuation

Components have better reliability and lower LID/LETID attenuation



Double Power Output

For higher power output, backside power output can be increased 5-25%



Wider Application

No water-permeability and high wear-resistance, can be widely used in high-humid, windy and dusty area



PID Resistance

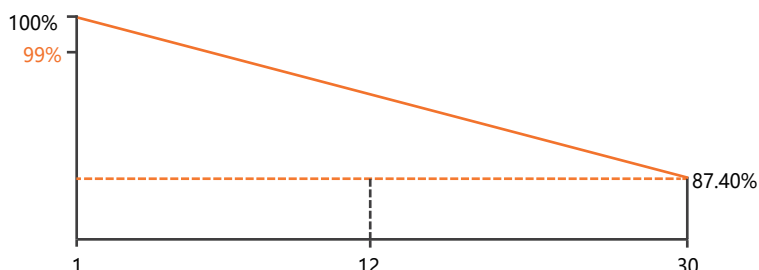
Excellent Anti-PID performance guarantee via optimized mass-production process and materials control

Guaranteed Power Performance

25 Years Product Warranty

30 Years Linear Power Warranty

0.40% Annual Degradation Over 30 Years



As different markets have different certification requirements, please consult our G-Star sales group to obtain the corresponding certification for the local market. If any special requirements are needed for the specific installing environment, please feel free to contact G-star technical support department anytime.

GSD8R48T

430-455W

CleanEdge TOPCON Bifacial Module

Weight

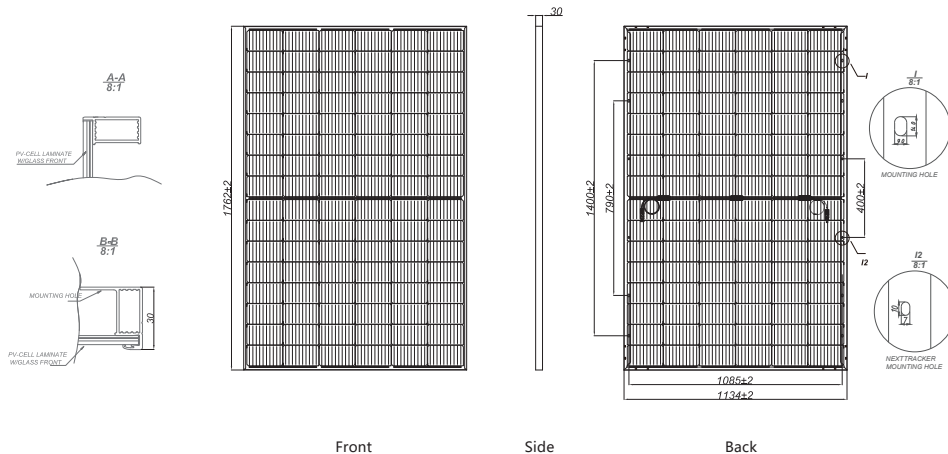
25.5 kg

Dimensions

1762*1134*30mm

Packaging

36pcs/pallet,936pcs/ 40'HQ Container



Front

Side

Back

OPERATING CONDITIONS

Operating Temperature	-40°C~+85°C
Maximum System Voltage	1500V/DC(IEC)
Maximum Series Fuse Rating	30A
Power Tolerance	0~+3%
Temperature Coefficients Of Pmax	-0.30%/°C
Temperature Coefficients Of Voc	-0.25%/°C
Temperature Coefficients Of Isc	0.046%/°C
Nominal Module Operating Temperature(NMOT)	43±2°C
*Under STC :BACKside Output Ration =Pmax(rear)/Pmax(front) 80%±5%	

MECHANICAL CHARACTERISTICS

Cell Type	N type Monocrystalline 182*105mm
No. Of Cells	144 pcs in series (6x24)
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy,silver or black
Junction Box	IP68 ,3Bypass Diodes
Output Cables	300mm in legh or Customized Length
Connectors	MC4-EVO2
Mechanical Load	5400Pa(Front)/2400Pa(Back)

ELECTRICAL PARAMETERS AT STC

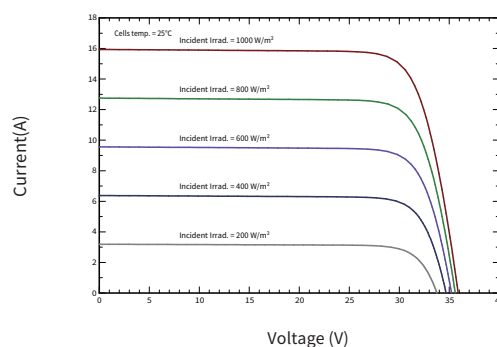
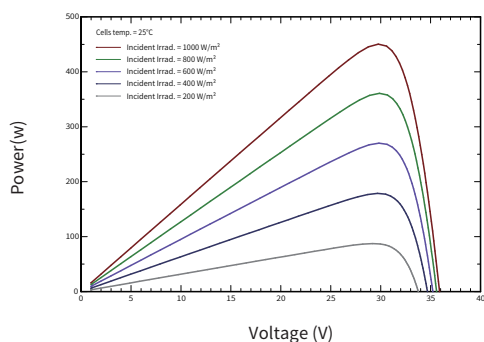
Module Type	GSD8R48T-430WT	GSD8R48T-435WT	GSD8R48T-440WT	GSD8R48T-445WT	GSD8R48T-450WT	GSD8R48T-455WT
Maximum Power(Pmax)	430	435	440	445	450	455
Maximum Power Voltage (Vmp)	29.50	29.65	29.80	29.95	30.10	30.25
Maximum Power Current (Imp)	14.58	14.67	14.77	14.86	14.95	15.04
Open-Circuit Voltage (Voc)	34.20	34.40	34.60	34.80	35.00	35.20
Short-Circuit Current (Isc)	15.64	15.72	15.79	15.87	15.94	16.02
Module Efficiency STC (%)	21.52%	21.77%	22.02%	22.27%	22.52%	22.77%
STC: Irradiance 1000W/m²,AM=1.5, Cell temperature 25°C.						

ELECTRICAL PARAMETERS AT BSTC**

Maximum Power(Pmax)	475	480	485	490	495	500
Maximum Power Voltage (Vmp)	29.50	29.65	29.80	29.95	30.10	30.25
Maximum Power Current (Imp)	16.11	16.19	16.28	16.37	16.45	16.53
Open-Circuit Voltage (Voc)	34.20	34.40	34.60	34.80	35.00	35.20
Short-Circuit Current (Isc)	17.31	17.40	17.48	17.57	17.64	17.73
Module Efficiency BSTC (%)	23.77%	24.02%	24.27%	24.52%	24.77%	25.02%

**BSTC: Front side irradiation 1000W/m², Back side reflection irradiation 135W/m²,AM=1.5, Cell temperature 25°C.

IV-CURVE



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