

210R N-Type
M/ET-PD-EN2025V1

Maximum Efficiency

23.0%

Maximum Power Output

460W

XXX: Power Output Range 440-460W

ET-NR48TBHXXXGL/GB



IEC61215
IEC61730
UL61215
UL61730

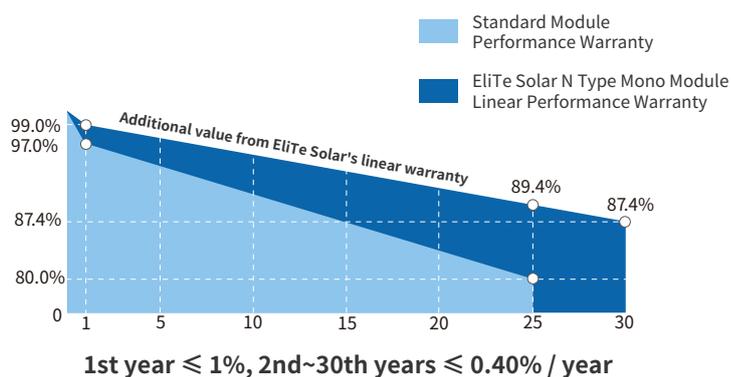


Linear power
output warranty



Guarantee on product
material and workmanship

About warranty



SMBB Technology

Uses advanced technology to enhance light trapping and optimize current collection, resulting in increased module power output and reliability.



PID Resistance

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

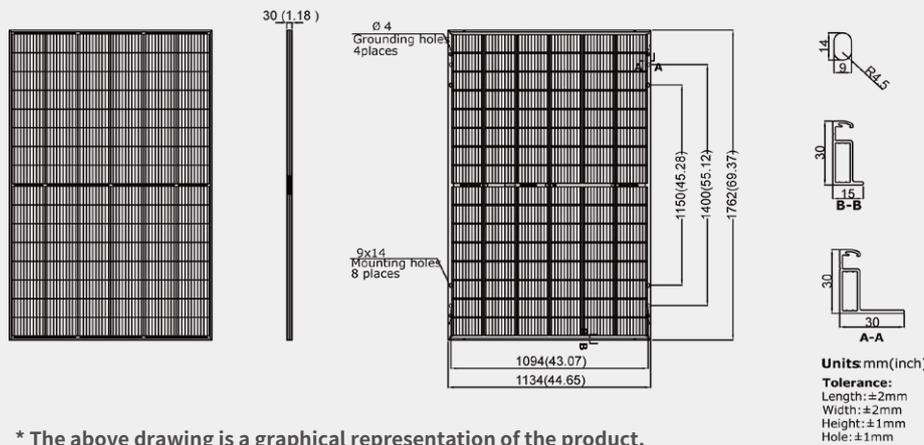


Increased Power Output

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

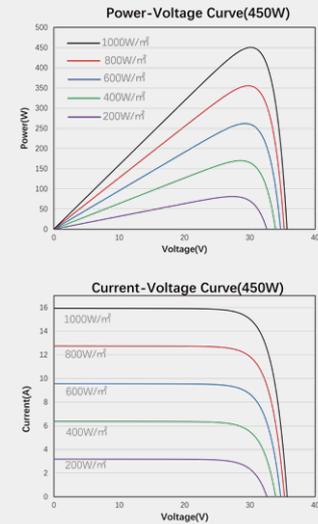
PHYSICAL CHARACTERISTICS

Unit:mm/inch



* The above drawing is a graphical representation of the product.
For engineering quality drawings please contact EliTe Solar.

CURVE



ELECTRICAL SPECIFICATIONS

STC : AM1.5 1000W/m² 25°C. NOCT : AM1.5 800W/m² 20°C 1m/s.

Module Type	ET-NR48TBH440GL/GB		ET-NR48TBH445GL/GB		ET-NR48TBH450GL/GB		ET-NR48TBH455GL/GB		ET-NR48TBH460GL/GB	
	STC	NOCT								
Maximum Power -P _{mp} (W)	440	333	445	337	450	341	455	345	460	350
Open Circuit Voltage -V _{oc} (V)	29.38	27.48	29.57	27.67	29.76	27.86	29.96	28.05	30.15	28.24
Short Circuit Current -I _{sc} (A)	14.98	12.10	15.05	12.17	15.12	12.24	15.19	12.31	15.26	12.38
Maximum Power Voltage -V _{mp} (V)	35.29	33.83	35.49	34.02	35.69	34.21	35.89	34.40	36.09	34.59
Maximum Power Current -I _{mp} (A)	15.79	12.69	15.86	12.75	15.93	12.81	16.00	12.87	16.07	12.93
Module Efficiency STC-η (%)	22.0%		22.3%		22.5%		22.8%		23.0%	
Power Tolerance(W)	0-+3%									
Pmax Temperature Coefficient	-0.30%/°C									
Voc Temperature Coefficient	-0.22%/°C									
Isc Temperature Coefficient	+0.042%/°C									
Fire Performance	Type 29(UL)									

REAR SIDE POWER GAIN (ET-NR48TBH450GL)

Power Gain	10%	15%	20%	25%
Maximum Power -P _{mp} (W)	495.00	517.50	540.00	562.50
Open Circuit Voltage -V _{oc} (V)	35.69	35.69	35.69	35.69
Short Circuit Current -I _{sc} (A)	17.70	18.50	19.31	20.11
Maximum Power Voltage -V _{mp} (V)	29.76	29.76	29.76	29.76
Maximum Power Current -I _{mp} (A)	16.63	17.39	18.15	18.90

MECHANICAL SPECIFICATIONS

External Dimension	1762 x 1134 x 30mm/69.37 x 44.65 x 1.18inch
Weight	24.5kg/54.01lbs
Solar Cells	N-Type Mono-crystalline (96pcs)
Front Glass/Back Glass	2.0mm/2.0mm(0.08inch)
Frame	Anodized aluminium alloy
Junction Box	IP68, 3 diodes
Cable Length (Including Connector)	4.0 mm ² (12AWG), Portrait:200mm(+)/400mm(-);Or customized
Connector	MC4 Compatible
Power Bifaciality*	80%±10%

Please contact info@elite-solar.com for technical support. This parameter is for reference only and it is not a part of the contracts.
The specifications are subject to change without prior notice.

APPLICATION CONDITIONS

Maximum System Voltage	1500VDC
Maximum Series Fuse Rating	30A
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature	45±2 °C
Maximum Mechanical Load	5400Pa/2400Pa

PACKING MANNER

Container	40' HQ
Pieces per Pallet	36
Size of packing (mm/inch)	1785*1130*1264/70.28*44.49*49.76
Weight of packing (kg/lbs)	921/2030.46
Pieces per Container (Normal/Weight-limited area)	936/720