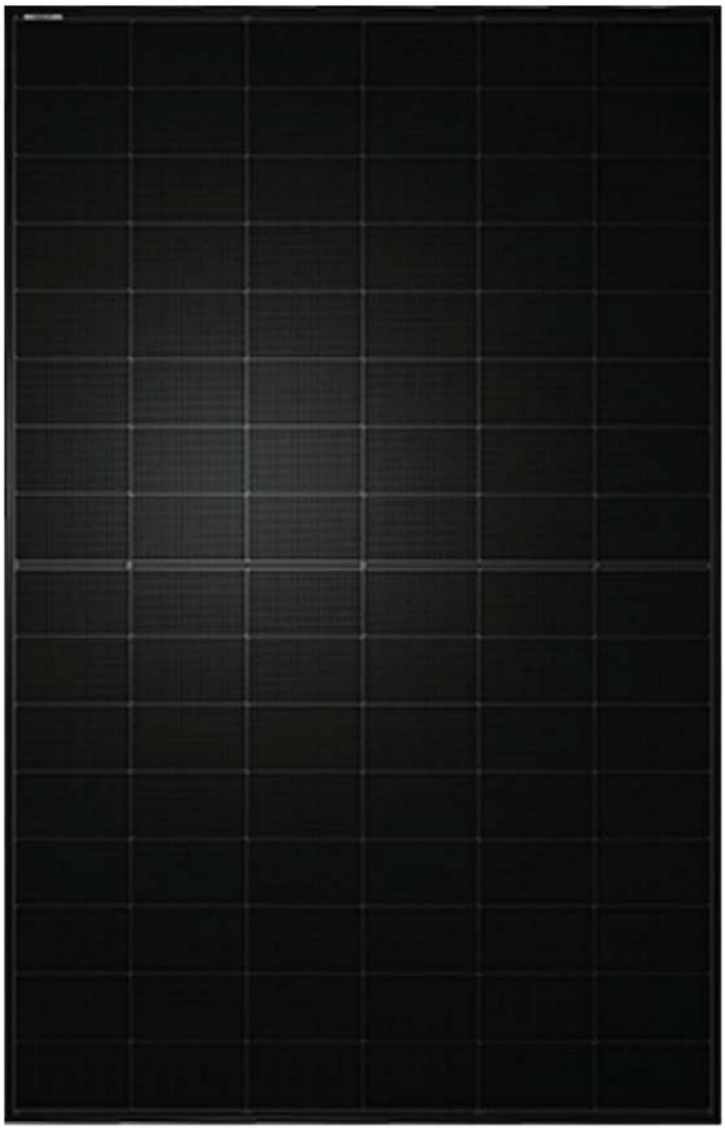
M/ET-PD-EN2024Y2
info@elite-solar.com



ET-NR748TBHGB
420W-440W

N-Type BIFACIAL MODULE

Modern Appearance
Sleek black design crafted for enhanced aesthetics and seamless integration into buildings.

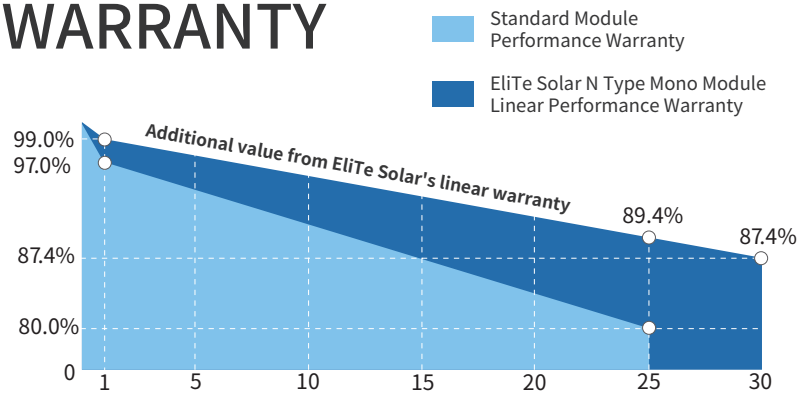
Increased module conversion efficiency
Module efficiency up to 22.02% achieved through advanced cell technology and manufacturing processes.

ZERO LID (Light Induced Degradation)
N-type solar cells inherently lack Light Induced Degradation (LID), thereby enhancing power output.

Enhanced Low-Light Performance Response
Enhanced performance in low-light conditions, ensuring superior power output even amidst cloudy or foggy weather.

Enhanced Versatility
Smaller size optimized for irregular and complex terrain.

WARRANTY



1st year ⩽ 1%, 2nd~30th years ⩽ 0.40% / year

12 YEARS

Guarantee on product material and workmanship

30 YEARS

Linear power output warranty

ELECTRICAL SPECIFICATIONS(STC)

Module Type	ET-NR748TBH420GB	ET-NR748TBH425GB	ET-NR748TBH430GB	ET-NR748TBH435GB	ET-NR748TBH440GB
Maximum Power -P_{mp} (W)	420	425	430	435	440
Open Circuit Voltage -V_{oc} (V)	34.05	34.25	34.54	34.72	34.92
Short Circuit Current -I_{sc} (A)	15.62	15.70	15.78	15.86	15.94
Maximum Power Voltage -V_{mp} (V)	28.93	29.11	29.30	29.48	29.65
Maximum Power Current -I_{mp} (A)	14.52	14.60	14.68	14.76	14.84
Module Efficiency STC-η_m (%)	21.0%	21.3%	21.5%	21.8%	22.0%
Power Tolerance （W）			0-+5%		
Pmax Temperature Coefficient			-0.30%/°C		
Voc Temperature Coefficient			-0.25%/°C		
Isc Temperature Coefficient			+0.045%/°C		
Fire Performance			Class II		

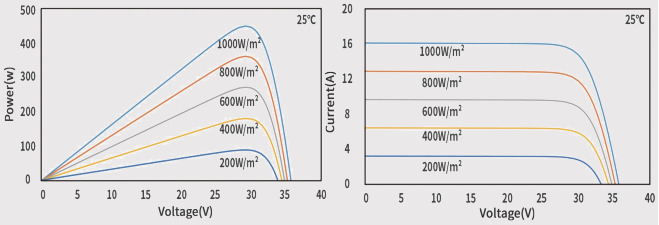
ELECTRICAL SPECIFICATIONS(BSTC)

Module Type	ET-NR748TBH420GB	ET-NR748TBH425GB	ET-NR748TBH430GB	ET-NR748TBH435GB	ET-NR748TBH440GB
Maximum Power -P_{mp} (W)	320	324	328	331	335
Open Circuit Voltage -V_{oc} (V)	32.59	32.83	33.07	33.24	33.44
Short Circuit Current -I_{sc} (A)	12.59	12.65	12.72	12.79	12.85
Maximum Power Voltage -V_{mp} (V)	27.35	27.53	27.69	27.86	28.02
Maximum Power Current -I_{mp} (A)	11.70	11.77	11.83	11.90	11.96

MECHANICAL SPECIFICATIONS

External Dimension	1762 x 1134 x 30mm
Weight	21kg
Solar Cells	N Type 182 x 105 mm (96pcs)
Front Glass/Back Glass	2.0mm/1.6mm
Frame	Anodized aluminium alloy
Junction Box	IP68, 3 diodes
Cable Length (Including Connector)	4.0 mm²(12AWG), Portrait:200mm(+)/400mm(-);Or customized
Connector	MC4 Compatible
Power Bifaciality*	80%±5%

CURVE



APPLICATION CONDITIONS

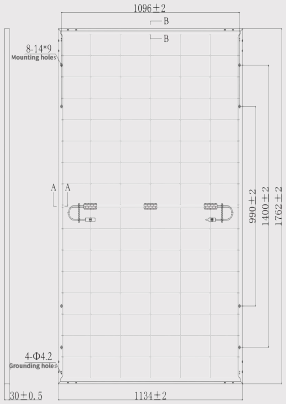
Maximum System Voltage	1500VDC
Maximum Series Fuse Rating	30A
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature	45±2 °C
Mechanical Load	5400Pa/2400Pa

PACKING MANNER

Container	40’ HQ
Pieces per Pallet	36
Size of packing (mm)	1778*1110*1240
Weight of packing (kg)	840
Pieces per Container	936

PHYSICAL CHARACTERISTICS

Unit:mm



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

Note: The specifications are obtained under the Standard Test Conditions (STCs): 1000 W/m² solar irradiance, 1.5 Air Mass, and cell temperature of 25°C. The BSTC is obtained under the Test Conditions: 1000 W/m² solar irradiance (front), 135 W/m² solar reflected irradiance (back), 1.5 Air Mass, and cell temperature of 25°C.
Please contact info@elite-solar.com for technical support. The actual transactions will be subject to the contracts. This parameter is for reference only and it is not a part of the contracts. The specifications are subject to change without prior notice.