

182N-Type

23.3%

Maximum Efficiency

650W

Maximum Power Output

ET-N778TBHXXXGL

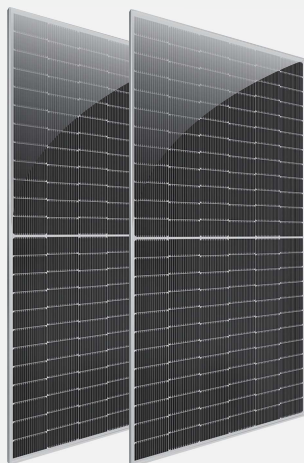
XXX:Power Output Range 630-650W

30 YEARS Linear power output warranty

12 YEARS Guarantee on product material and workmanship

The module picture is for reference only

Product Features



Advanced Technology
N-Type M10 wafer
High density interconnect technology.

Increased Performance
Well-suited for use in environments characterized by high reflectivity, elevated temperatures, scarce land availability, and substantial labor expenses.

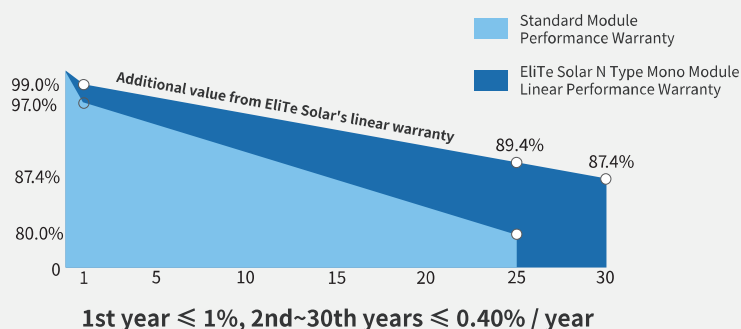
Increased Power Generation
Lower degradation, higher bifaciality and lower temperature coefficient improve energy yield.

Increased Value
Increased efficiency results in decreased LCOE and BOS costs

Severe Weather Resilience
Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



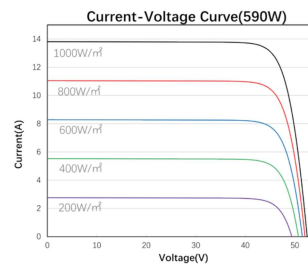
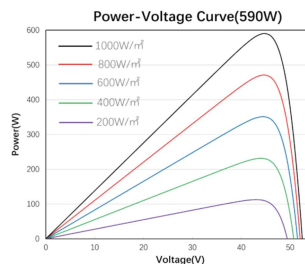
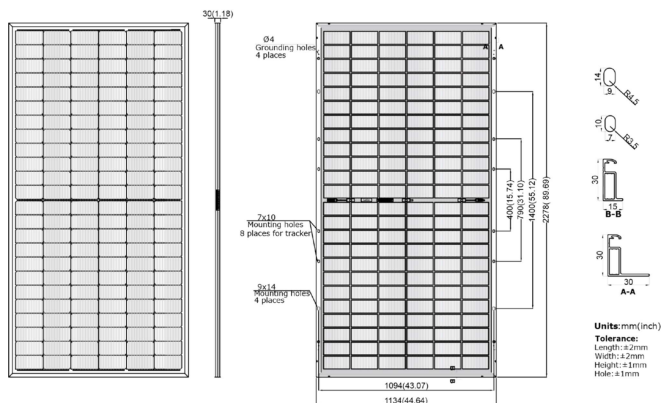
About warranty



PHYSICAL CHARACTERISTICS

Unit:mm/inch

CURVE



ELECTRICAL SPECIFICATIONS

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

Module Type	ET-N778TBH630GL		ET-N778TBH635GL		ET-N778TBH640GL		ET-N778TBH645GL		ET-N778TBH650GL	
STC/NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power -P _{mp} (W)	630	474	635	478	640	481	645	485	650	489
Open Circuit Voltage -V _{oc} (V)	56.49	53.67	56.69	53.86	56.89	54.05	57.09	54.24	57.29	54.43
Short Circuit Current -I _{sc} (A)	13.74	11.09	13.79	11.13	13.84	11.17	13.89	11.21	13.93	11.24
Maximum Power Voltage -V _{mp} (V)	48.43	45.58	48.59	45.75	48.75	45.87	48.91	46.02	49.07	46.17
Maximum Power Current -I _{mp} (A)	13.01	10.40	13.07	10.45	13.13	10.49	13.19	10.54	13.25	10.59
Module Efficiency STC-η _m (%)	22.5%		22.7%		22.9%		23.1%		23.3%	
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-N778TBH640GL)

Power Gain	10%	15%	20%	25%
Maximum Power -P _{mp} (W)	704	736	768	800
Open Circuit Voltage -V _{oc} (V)	56.89	56.89	56.89	56.89
Short Circuit Current -I _{sc} (A)	15.05	15.75	16.44	17.11
Maximum Power Voltage -V _{mp} (V)	48.75	48.75	48.75	48.75
Maximum Power Current -I _{mp} (A)	14.44	15.10	15.76	16.41

MECHANICAL SPECIFICATIONS

External Dimension	2465 x 1134 x 30mm/97.05 x 44.65 x 1.18inch
Weight	35kg/77.16lbs
Solar Cells	N-Type Mono-crystalline(156pcs)
Front Glass/Black Glass	2.0mm/2.0mm(0.08inch)
Frame	Anodized aluminium alloy
Junction Box	IP68, 3 diodes
Cable Length	4.0 mm²(12AWG), Portrait:200mm(+)/400mm(-); Or customized
Connector	MC4 Compatible
Power Bifaciality*	80%±10%

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/inch)	2487*1130*1264/97.91*44.49*49.76
Weight of packing (kg/lbs)	1303/2872.62
Pieces per Container (Normal/Weight-limited area)	576/504(NA)

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.