



NESE 595-72THB-M10

16BB HALF-CELL N-TYPE TOPCON BIFACIAL
DOUBLE GLASS MONOCRYSTALLINE PV MODULE



Global, Tier1 bankable brand, with independently certified advanced automated manufacturing

KEY FEATURES



High efficiency TOPCon

A high efficiency 182 (M10) N-Type TOPCon solar cell with 16 busbars technology to ensure the efficiency of the solar module up to 23.03% and stable operation.



Wind/Snow load

Wind load 2400 pa, snow load 5400 pa.



Excellent performance with weak light

More power output with a weak light condition-through advanced glass and solar cells.



Bifacial power generation

Increases 10-30% power generation revenue.



Pid free

Excellent Anti-PID performance, minimized the degradation of power.

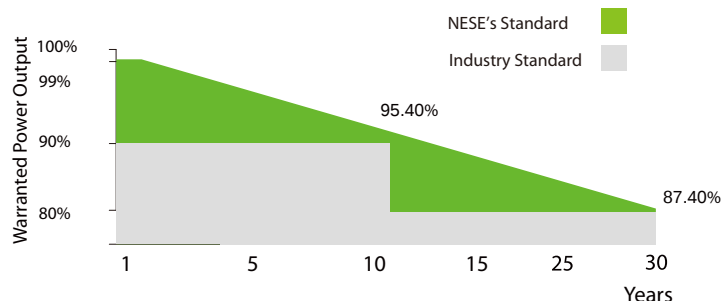


Resistance of extreme environment conditions

High salt mist and ammonia resistance certified by tuv.

LINEAR PERFORMANCE WARRANTY

12 YEARS PRODUCT WARRANTY. 30 YEARS LINEAR POWER WARRANTY.



MANAGEMENT SYSTEM CERTIFICATES

ISO 9001/ISO 14001/ISO 45001

SA 8000/ISO 50001/ISO 37001

PRODUCT CERTIFICATES

IEC 61215/IEC 61730:VDE/CE/CEC AU

UL 61730: CSA

IEC 61701/IEC 62716/IEC 62804

ENVIRONMENT CERTIFICATES

ISO 14064/ISO 14067

INSURED BY



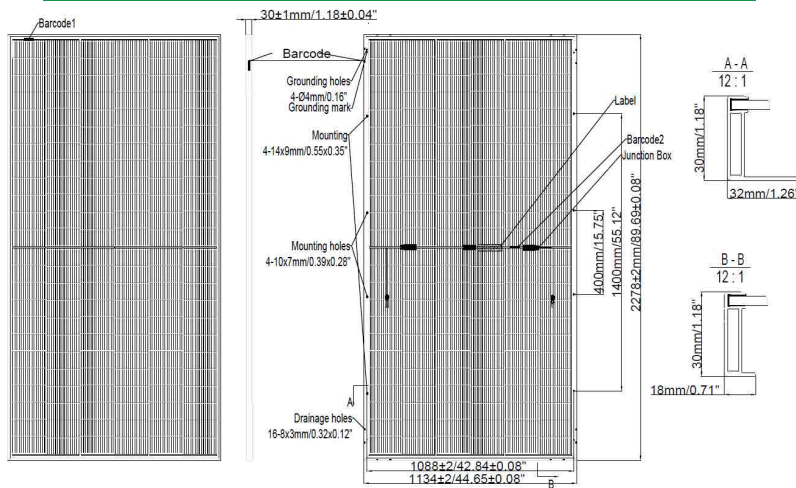
SPECIFICATIONS

Module type	NESE 575-72THB-M10		NESE 580-72THB-M10		NESE 585-72THB-M10		NESE 590-72THB-M10		NESE 595-72THB-M10	
	STC	(NMOT)	STC	(NMOT)	STC	(NMOT)	STC	(NMOT)	STC	(NMOT)
Maximum power(Pmax)	575Wp	434Wp	580Wp	438Wp	585Wp	442Wp	590Wp	446Wp	595Wp	450Wp
Maximum power voltage(Vmp)	42.6V	40.0V	42.8V	40.2V	43.0V	40.4V	43.2V	40.6V	43.4V	40.8V
Maximum power current (Imp)	13.50A	10.83A	13.56A	10.88A	13.61A	10.93A	13.66A	10.98A	13.72A	11.03A
Open-circuit voltage(Voc)	51.3V	48.4V	51.5V	48.6V	51.7V	48.8V	51.9V	49.0V	52.1V	49.2V
Short-circuit current(Isc)	14.29A	11.53A	14.35A	11.58A	14.41A	11.63A	14.47A	11.68A	14.53A	11.73A
Module efficiency stc (%)	22.26%		22.45%		22.65%		22.84%		23.03%	
Operating temperature(°C)	-40°C ~ 85°C									

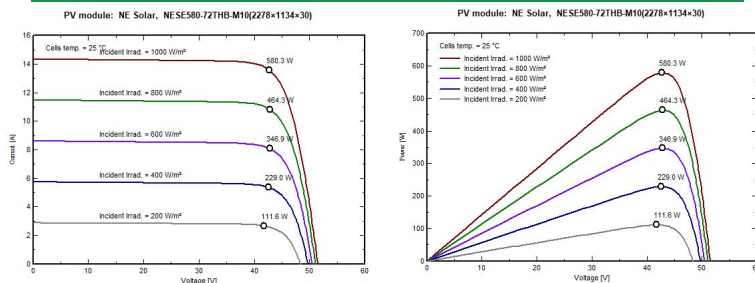
ELECTRICAL CHARACTERISTICS AT BNPI(BSI)

Front power Pmax/W	575		580		585		590		595	
Total power Pmax/W	637 (713)		643 (719)		648 (725)		654 (732)		659 (738)	
Vmp/V(Total)	42.6 (42.7)		42.8 (42.9)		43.0 (43.1)		43.2 (43.3)		43.4 (43.5)	
Imp/A(Total)	14.96 (16.74)		15.02 (16.81)		15.09 (16.89)		15.16 (16.96)		15.22 (17.04)	
Voc/V(Total)	51.3 (51.4)		51.5 (51.6)		51.7 (51.8)		51.9 (52.0)		52.1 (52.2)	
Isc/A(Total)	15.83 (17.72)		15.9 (17.79)		15.97 (17.87)		16.03 (17.94)		16.10 (18.02)	

ENGINEERING DRAWING



IV CURVES OF THE PV MODULES



Electrical performance vs Incident Irradiance Current-voltage & power-voltage curves (580W)

TEMPERATURE RATINGS

NMOT	44±2°C
Temperature coefficients of Pmax	-0.30%/°C
Temperature coefficients of Voc	-0.25%/°C
Temperature coefficients of Lsc	+0.046%/°C
Refer. Bifacial Factor	80±10%

MATERIAL CHARACTERISTICS

Number of cell	144 (6*24)
Dimensions	2278*1134*30mm 89.69"*44.65"*1.18"
Weight	39.2+/-1.0kg 86.4+/-2.21lb
Glass	3.2mm+2.0mm AR Coated tempered +Glazed heat strengthened glass
Frame	Anodized aluminium alloy

WORKING CONDITIONS

Maximum system voltage	1000/1500 VDC
Maximum series fuse rating	30A

Junction box	Ip68,3 diodes
Cables	Length: 350mm/13.78" or Customized, 12 AWG

Module Fire Performance

Connectors	MC4-Compatible
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Type 29/Class C

PACKAGING CONFIGURATION

40HQ	720Pcs
Pallet Dimension	2300*1120*1271mm 90.55"*44.09"*50.04"
Pallets in one Container	20Pcs
Modules in one Pallet	36Pcs