



NESE 630-66THB-G12R

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



Global, Tire1 bankable brand, with independently certified
advanced automated manufacturing

KEY FEATURES



High efficiency TOPCon

A high efficiency 210 Rectangular (G12R) TOPCon solar cell with 16 busbars technology to ensure the efficiency of the solar module up to 23.32% 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.



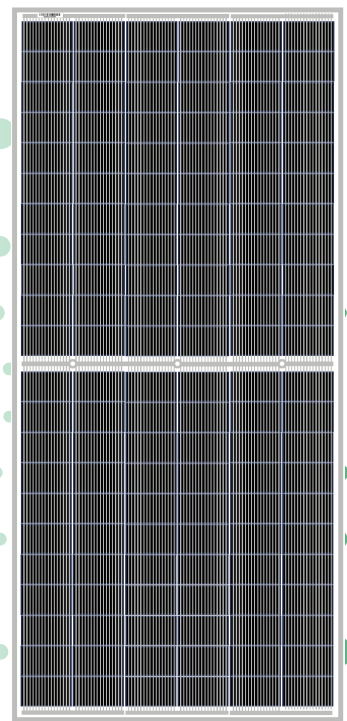
Pid free

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



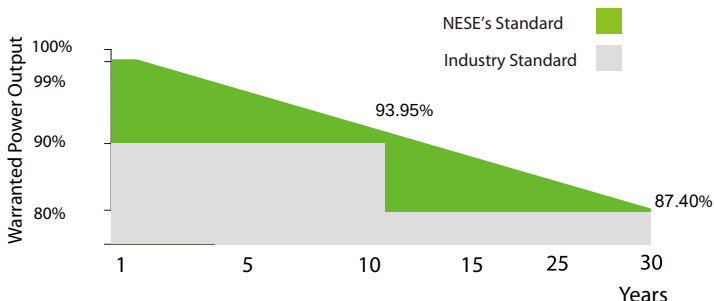
Resistance of extreme environment conditions

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



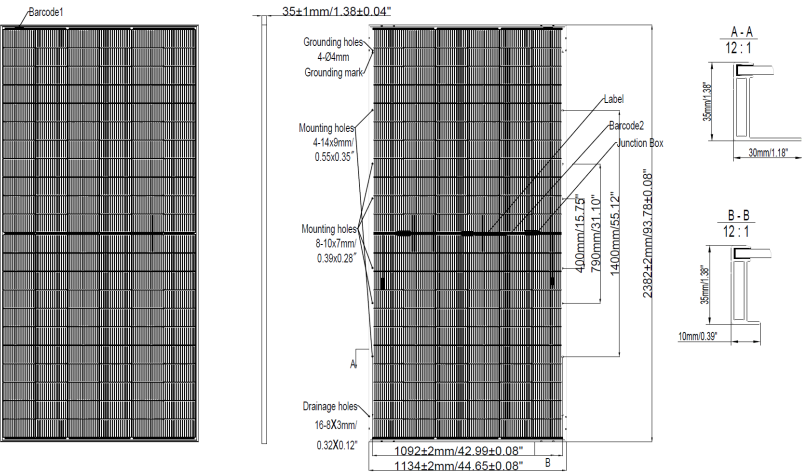
SPECIFICATIONS

Module type	NESE 610-66THB-G12R		NESE 615-66THB-G12R		NESE 620-66THB-G12R		NESE 625-66THB-G12R		NESE 630-66THB-G12R	
	STC	(NMOT)	STC	(NMOT)	STC	(NMOT)	STC	(NMOT)	STC	(NMOT)
Maximum power(Pmax)	610Wp	462Wp	615Wp	466Wp	620Wp	471Wp	625Wp	475Wp	630Wp	479Wp
Maximum power voltage(Vmp)	40.6V	37.8V	40.8V	38.0V	41.0V	38.3V	41.2V	38.5V	41.4V	38.7V
Maximum power current (Imp)	15.03A	12.22A	15.08A	12.26A	15.13A	12.29A	15.17A	12.33A	15.22A	12.37A
Open-circuit voltage(Voc)	48.5V	45.8V	48.7V	46.0V	48.9V	46.3V	49.1V	46.5V	49.3V	46.7V
Short-circuit current(Isc)	15.95A	12.87A	16.00A	12.91A	16.05A	12.95A	16.09A	12.98A	16.14A	13.02A
Module efficiency stc (%)	22.58%		22.77%		22.95%		23.14%		23.32%	
Operating temperature(°C)	-40°C ~ 85°C									

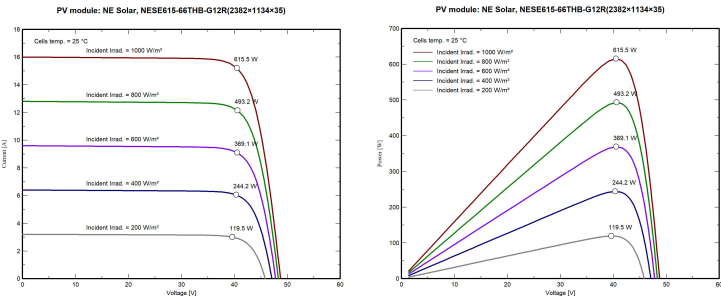
ELECTRICAL CHARACTERISTICS AT BNPI (BSI)

Front power Pmax/W	610		615		620		625		630	
Total power Pmax/W	676 (756)		681 (763)		687 (769)		693 (775)		698 (781)	
Vmp/V(Total)	40.6 (40.7)		40.8 (40.9)		41.0 (41.1)		41.2 (41.3)		41.4 (41.5)	
Imp/A(Total)	16.65 (18.64)		16.71 (18.70)		16.76 (18.76)		16.81 (18.81)		16.86 (18.87)	
Voc/V(Total)	48.5 (48.6)		48.7 (48.8)		48.9 (49.0)		49.1 (49.2)		49.3 (49.4)	
Isc/A(Total)	17.67 (19.78)		17.73 (19.84)		17.78 (19.90)		17.83 (19.95)		17.88 (20.01)	

ENGINEERING DRAWING



IV CURVES OF THE PV MODULES



Electrical performance vs Incident Irradiance Current-voltage & power-voltage curves (615W)

TEMPERATURE RATINGS

NMOT	44±2°C
Temperature coefficients of Pmax	-(0.28±0.028) %/°C
Temperature coefficients of Voc	-0.23%/°C
Temperature coefficients of Isc	+0.045%/°C
Refer. Bifacial Factor	(80±10)%

MATERIAL CHARACTERISTICS

Number of cell	132 (6*22)
Dimensions	2382*1134*35mm 93.78"*44.65"*1.38"
Weight	41.5+/-1.0kg 91.49+/-2.20lb
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	35A

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

Connectors	MC4-Compatible
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Module Fire Performance	Type 29/Class C
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PACKAGING CONFIGURATION

40HQ	620PCS
Pallet Dimension	1100*1140*2489mm 43.31"*44.88"*97.99"
Pallets in one Container	20Pallets
Modules in one Pallet	31Pcs