

SOLAR MODULE 610 - 640 W



**G12R - TOPCON
HALF CUT PV MODULE
HIGH EFFICIENCY**



N-TYPE TOPCON CELL TECHNOLOGY

Based on G12R-182 x 210 mm wafer with multi-busbar
Best choice for ultra-large power plants



MODULE TECHNOLOGY

Half-cut cell technology; High module efficiency
Low breakage rate; Annual power degradation 0.4%
Less power loss by minimizing the shading impact



HOT SPOT LOSS

Optimized electrical design and lower operating current
Reduced hot spot loss and better temperature coefficient.



FAST & SAFE

Easy installation and handling
Environmentally friendly



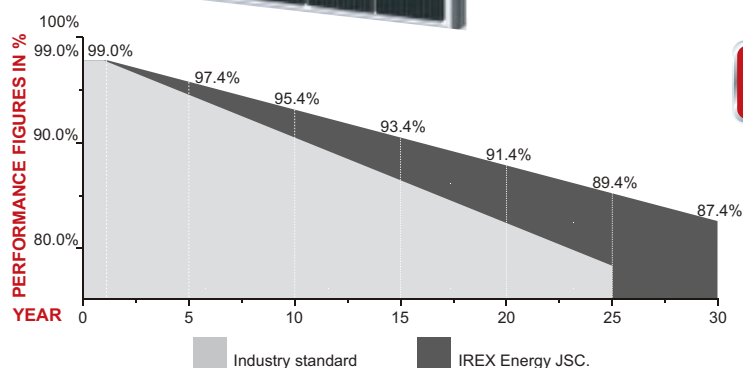
MODULE DURABILITY

Mechanical load test Front side 5400Pa/Rear side 2400Pa
Ideal for PV rooftops, ground mount, floating



THE #1 DOMESTIC PV MANUFACTURER IN VIETNAM

100% Automatic production line
International quality PV technology



ADDITIONAL LINEAR WARRANTY VALUE FROM IREX ENERGY JSC

CERTIFICATES



ISO 9001:2015: Quality Management System
ISO 14001:2015: Environmental Management System
IEC 61215: Terrestrial Photovoltaic (PV) Modules – Design
Qualification and Type Approval (*)
IEC 61730: Photovoltaic (PV) Module Safety Qualification (*)

(*) In progress



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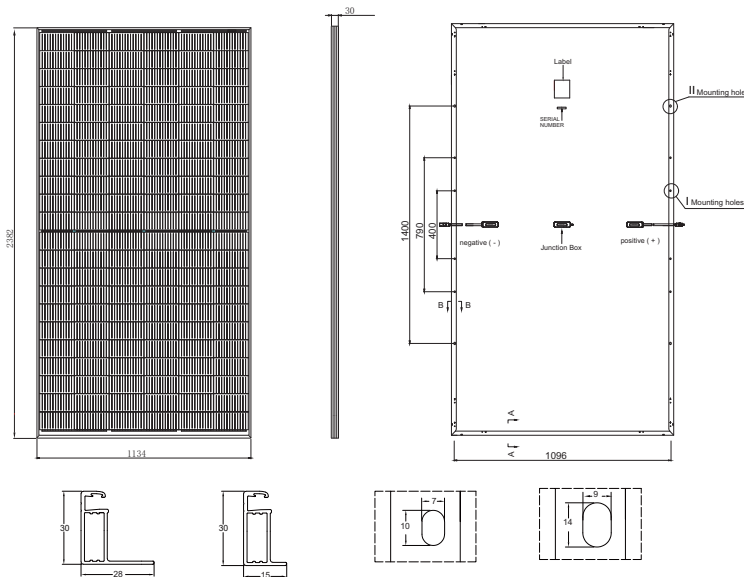
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Mechanical Specifications

External Dimensions	2382 x 1134 x 30 mm
Weight	28.1 kg
Solar Cells	N-type Topcon Mono 105 x 182 mm (132 pcs)
Front Glass	3.2 mm AR coating tempered glass, low iron
Frame	Anodized aluminium alloy
Junction Box	IP68, 3 diodes
Output Cables	4.0 mm ² , 300 mm(+)/ 200 mm(-) or Customized Length
Mechanical Load	Front Side Maximum Static Loading 5400Pa Rear Side Maximum Static Loading 2400Pa



*Tolerance: Length: ±2mm Width: ±2mm Height: ±1mm Row Pitch: ±2mm

Electrical Characteristics

Module Type	IRM66HT5-610		IRM66HT5-615		IRM66HT5-620		IRM66HT5-625		IRM66HT5-630		IRM66HT5-635		IRM66HT5-640	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax)	610	462	615	466	620	469	625	473	630	477	635	480	640	484
Open Circuit Voltage (Voc)	48.00	45.49	48.17	45.65	48.34	45.81	48.51	45.97	48.68	46.13	48.85	46.29	49.02	46.45
Short Circuit Current (Isc)	16.07	12.96	16.14	13.02	16.21	13.16	16.28	13.12	16.35	13.17	16.42	13.22	16.49	13.27
Maximum Power Voltage (Vmp)	40.22	38.06	40.35	38.16	40.48	38.31	40.63	38.46	40.73	38.58	40.85	38.70	40.98	38.82
Maximum Power Current (Imp)	15.18	12.16	15.25	12.20	15.33	12.27	15.41	12.31	15.48	12.36	15.55	12.41	15.62	12.46
Module Efficiency at STC(ηm)	22.6		22.8		23.0		23.1		23.3		23.5		23.7	
Power Tolerance	(0 ~ +5 W)													
Maximum System Voltage	1500 VDC													
Maximum Series Fuse Rating	30 A													

STC: Irradiance 1000 W/m², Cell Temperature 25°C, AM=1.5

NMOT: Irradiance 800 W/m², Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s

Temperature Characteristics

Pmax Temperature Coefficient	-0.29%/°C
Voc Temperature Coefficient	-0.25 %/°C
Isc Temperature Coefficient	+0.045 %/°C
Operating Temperature	-40~+85 °C
Nominal Module Operating Temperature (NMOT)	45 ± 2 °C

Packing Configuration

	2382 x 1134 x 30 mm	
Container	20'GP	40'HQ
Pieces per Pallet	37	37
Pallets per Container	4	20
Pieces per Container	148	740