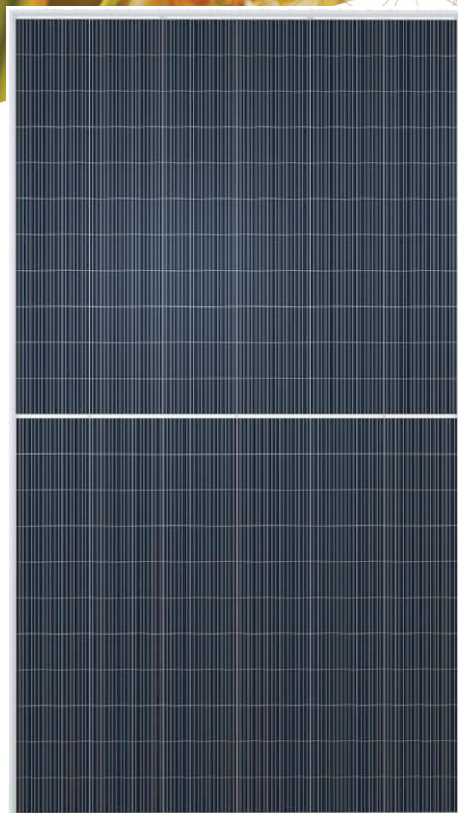


SOLAR MODULE 690 - 710 W



**G12 - TOPCON
HALF CUT PV MODULE
HIGH EFFICIENCY**



N-TYPE TOPCON CELL TECHNOLOGY

Based on G12-210mm 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



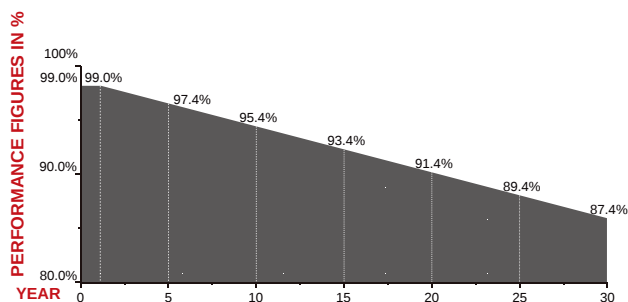
MODULE DURABILITY

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



GUARANTEED MODULE PERFORMANCE 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

HIGH QUALITY FOR PROSPERITY

IREX Energy Joint Stock Company produces the #1 Vietnamese-Made Photovoltaic (PV) modules, internationally certified with excellent performance and flexible in customization per demand.

Going solar requires a long-term commitment. You can sit back, relax and enjoy the sunshine; as our company will **always be with you in 30 years!**

With the **finest price and customer service** can only be found at IREX Joint Stock Company, we look forward to working with you soon!

IREX ENERGY JOINT STOCK COMPANY

Head Office: No. 47, Le Van Thinh Street, Quarter 5, Binh Trung Dong Ward, Thu Duc City, HCMC, Vietnam.
Factory Address: Road No. 1A, Phu My 1 Industrial Zone, Tan Phuoc Ward, HCMC, Vietnam.
Tel: +84 (0)28 7300 1559 | **Email:** info@irex.vn | **Website:** www.irex.vn



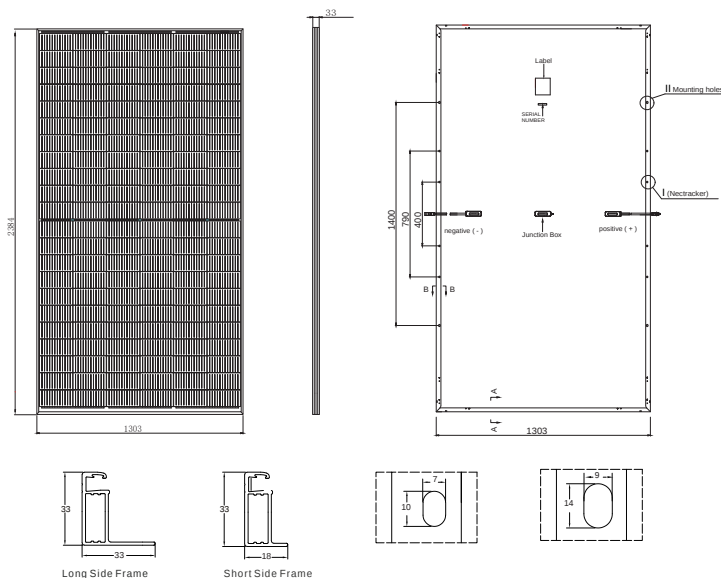
SOLAR MODULE

690 - 710 W



Mechanical Specifications

External Dimensions	2384 x 1303 x 33 mm
Weight	32.2 kg
Solar Cells	N-type Topcon Mono 105 x 210 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 mm², 300 mm(+)/ 200 mm(-) or Customized Length
Mechanical Load	Front Side Maximum Static Loading 5400Pa Rear Side Maximum Static Loading 2400Pa



Electrical Characteristics

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

Module Type	IRM66H4-690		IRM66H4-695		IRM66H4-700		IRM66H4-705		IRM66H4-710	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax)	690	521	695	525	700	529	705	532	710	536
Open Circuit Voltage (Voc)	47.30	44.79	47.50	45.01	47.90	45.36	48.68	46.20	48.91	46.38
Short Circuit Current (Isc)	18.02	14.53	18.05	14.56	18.08	14.58	18.11	14.61	18.15	14.65
Maximum Power Voltage (Vmp)	40.70	38.49	40.86	38.66	41.10	38.90	41.29	38.97	41.50	39.12
Maximum Power Current (Imp)	16.98	13.54	17.01	13.58	17.07	13.60	17.07	13.65	17.11	13.70
Module Efficiency at STC(ηm)	22.2		22.4		22.5		22.7		22.9	
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, spectrum AM1.5

NMOT: Irradiance 800 W/m², ambient temperature 20°C, spectrum AM1.5, wind speed 1m/s

Temperature Characteristics

Pmax Temperature Coefficient	-0.290 %/°C
Voc Temperature Coefficient	-0.250 %/°C
Isc Temperature Coefficient	+0.045 %/°C
Operating Temperature	-40~+85 °C
Nominal Module Operating Temperature (NMOT)	45 ± 2 °C

Packing Configuration

	2384 x 1303 x 33 mm
Container	40'HQ
Pieces per Pallet	33
Pallets per Container	18
Pieces per Container	594