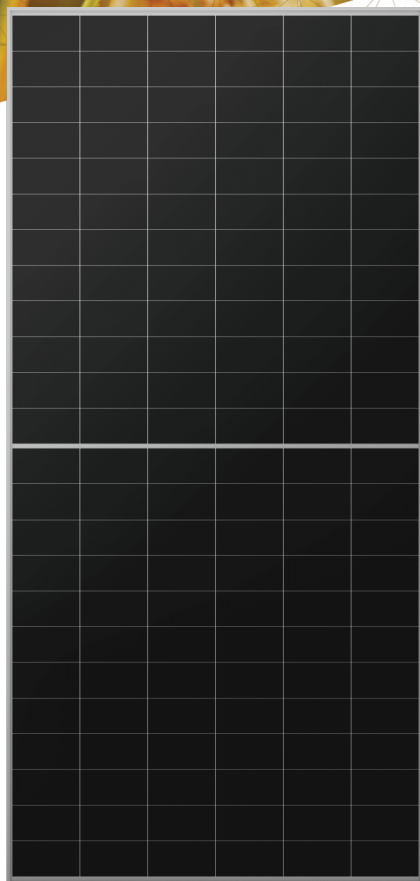


SOLAR MODULE 640 - 670 W



**G12R - 182 x 192.5 mm
HALF CUT PV MODULE
HIGH EFFICIENCY**



N-TYPE BACK CONTACT CELL TECHNOLOGY

Based on G12R-182 x 192.5 mm wafer
Best choice for ultra-large power plants



MODULE TECHNOLOGY

Half-cut cell technology; High module efficiency
Low breakage rate; Annual power degradation 0.35%
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



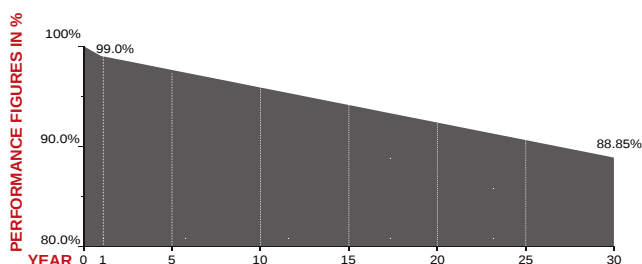
MODULE DURABILITY

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

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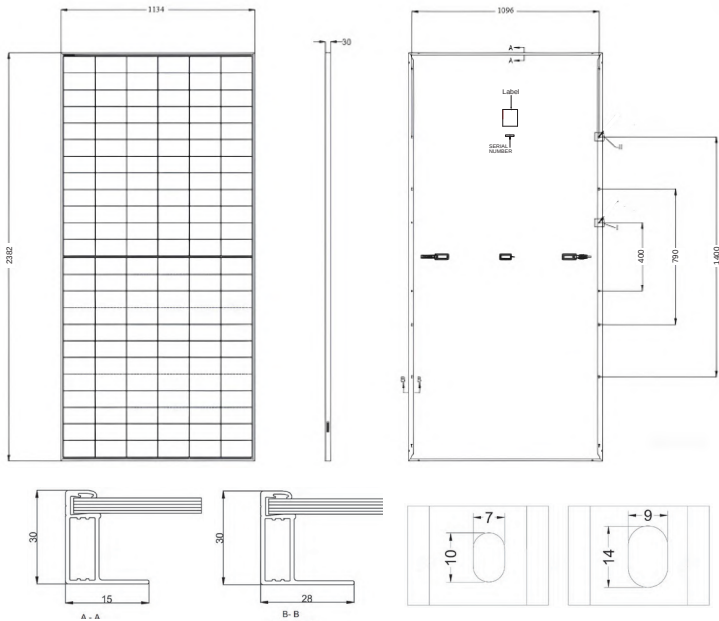
SOLAR MODULE

640 - 670 W



Mechanical Specifications

External Dimensions	2382 x 1134 x 30 mm
Weight	28.1 kg
Solar Cells	N-Type Back Contact (144 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



Electrical Characteristics

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

Module Type	IRM72X6-640		IRM72X6-645		IRM72X6-650		IRM72X6-655		IRM72X6-660		IRM72X6-665		IRM72X6-670	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax)	640	482	645	486	650	490	655	493	660	497	665	501	670	505
Open Circuit Voltage (Voc)	54.20	51.18	54.30	51.28	54.40	51.37	54.50	51.47	54.60	51.56	54.70	51.66	54.80	51.75
Short Circuit Current (Isc)	15.00	12.13	15.06	12.18	15.12	12.23	15.18	12.28	15.24	12.32	15.30	12.37	15.36	12.42
Maximum Power Voltage (Vmp)	44.90	42.40	45.00	42.50	45.10	42.59	45.20	42.69	45.30	42.78	45.40	42.87	45.50	42.97
Maximum Power Current (Imp)	14.26	11.38	14.34	11.44	14.42	11.51	14.50	11.57	14.57	11.63	14.65	11.69	14.73	11.76
Module Efficiency at STC (ηm)	23.7		23.9		24.1		24.2		24.4		24.6		24.8	
Power Tolerance	(0 ~ +5 W)													
Maximum System Voltage	1500 VDC													
Maximum Series Fuse Rating	25 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	-0.26 %/°C
Voc Temperature Coefficient	-0.22 %/°C
Isc Temperature Coefficient	+0.05 %/°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