

SOLAR MODULE 515 - 535 W



**G12R - 182 x 210 mm
HALF CUT PV MODULE
HIGH EFFICIENCY**



THE #1 DOMESTIC PV MANUFACTURER IN VIETNAM

100% Automatic production line
Strict Quality control base on international standard;



FAST & SAFE

Environmentally friendly
Easy installation and maintenance
Quickly custom service;



MODULE TECHNOLOGY

Low breakage rate; Annual power degradation 0.4%
Less power loss by minimizing the shading impact;



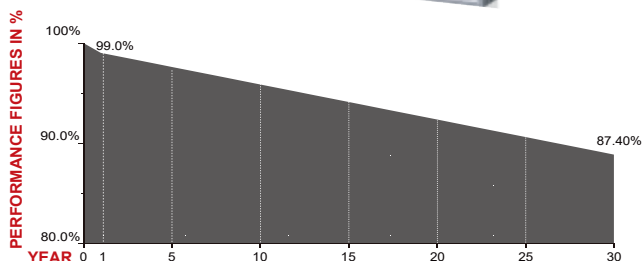
HOT SPOT LOSS

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



MODULE DURABILITY

Mechanical load test Front side 5400Pa/Rear side 2400Pa
Ideal for PV rooftops



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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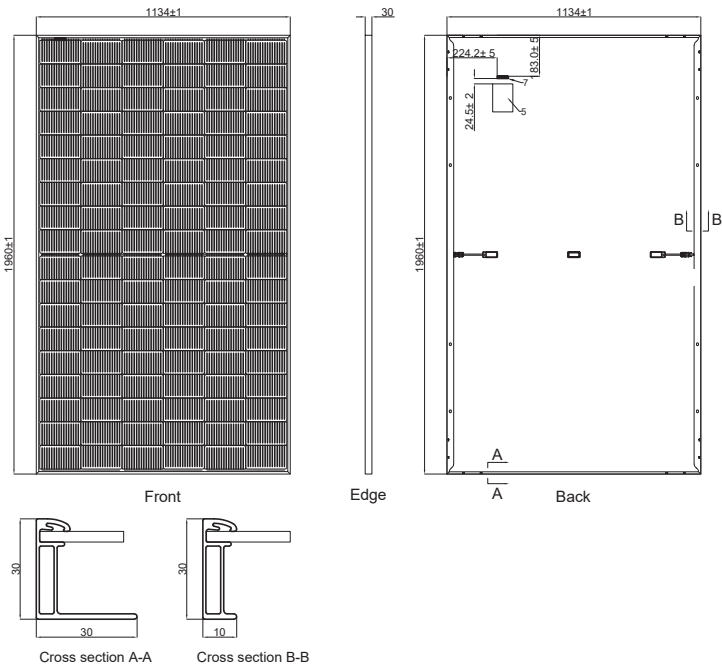
SOLAR MODULE

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Mechanical Specifications

External Dimensions	1960 x 1134 x 30 mm
Weight	26.6 kg
Solar Cells	N-Type TOPCon Mono 105 x 182mm (108 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

Module Type	IRM54HT5-515		IRM54HT5-520		IRM54HT5-525		IRM54HT5-530		IRM54HT5-535	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax)	515	390	520	394	525	398	530	402	535	406
Open Circuit Voltage (Voc)	40.60	38.57	40.78	38.74	40.96	38.91	41.14	39.08	41.32	39.25
Short Circuit Current (Isc)	15.98	12.90	16.01	12.92	16.04	12.95	16.07	12.97	16.10	13.00
Maximum Power Voltage (Vmp)	33.67	32.44	33.87	32.69	34.07	32.95	34.27	33.20	34.47	33.45
Maximum Power Current (Imp)	15.30	12.03	15.36	12.06	15.42	12.08	15.48	12.10	15.54	12.12
Module Efficiency at STC (ηm)	23.2		23.4		23.6		23.8		24.1	
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

	1960 x 1134 x 30 mm	
Container	20'GP	40'HQ
Pieces per Pallet	37	37
Pallets per Container	5	26
Pieces per Container	185	962