

SOLAR MODULE 640 - 665 W



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



N-TYPE BACK CONTACT CELL TECHNOLOGY

Based on G12R-182 x 192.5 mm wafer
N-Type wafer and Back Contact technology



MODULE TECHNOLOGY

Double-sided power generation
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



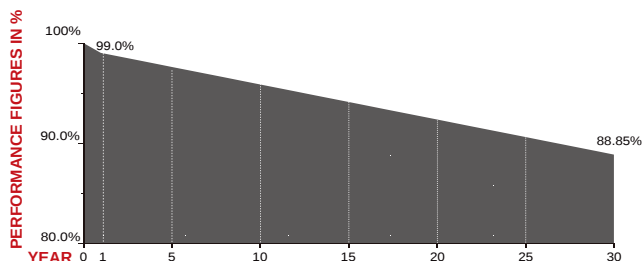
MODULE DURABILITY

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

IREX ENERGY JOINT STOCK COMPANY

Head Office: No. 47, Le Van Thinh Street, Quarter 5,
Binh Trung Ward, 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



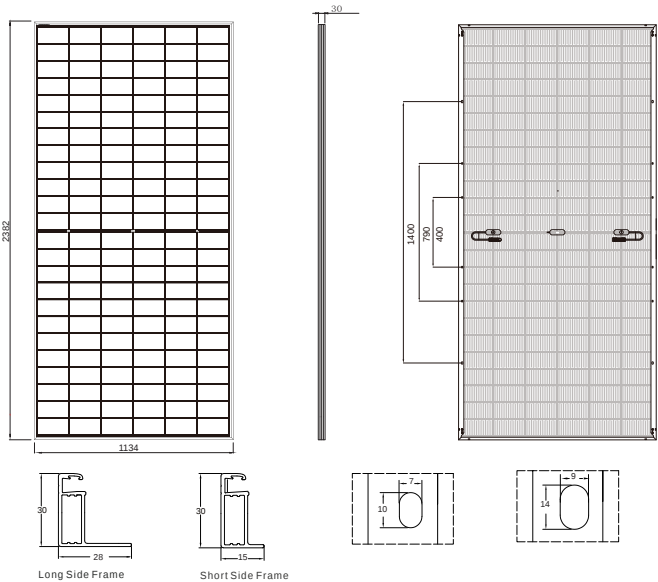
SOLAR MODULE

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Mechanical Specifications

External Dimensions	2382 x 1134 x 30 mm
Weight	33.5 kg
Solar Cells	N-Type Back Contact (144 pcs)
Glass	Dual glass, 2.0+2.0mm Heat Strengthened Glass
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: ±2 mm Width: ±2 mm Height: ±1 mm Row Pitch: ±2 mm

Electrical Characteristics

Module Type	IRM72HXD6-640		IRM72HXD6-645		IRM72HXD6-650		IRM72HXD6-655		IRM72HXD6-660		IRM72HXD6-665	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax)	640	485	645	489	650	493	655	496	660	500	665	504
Open Circuit Voltage (Voc)	53.80	51.04	54.90	51.14	54.00	51.23	54.10	51.33	54.20	51.42	54.30	51.51
Short Circuit Current (Isc)	14.94	12.07	15.00	12.12	15.06	12.17	15.12	12.22	15.18	12.27	15.24	12.32
Maximum Power Voltage (Vmp)	45.10	42.79	45.20	42.88	45.30	42.98	45.40	43.07	45.50	43.17	45.60	43.27
Maximum Power Current (Imp)	14.20	11.35	14.27	11.41	14.35	11.48	14.43	11.54	14.51	1.60	14.59	11.66
Module Efficiency at STC (ηm)	23.7		23.9		24.1		24.2		24.4		24.6	
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	-0.26 %/°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