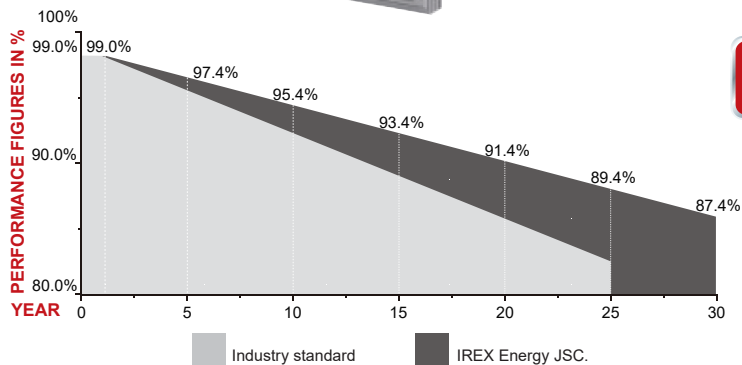


SOLAR MODULE 575 - 590 W



M10 - TOPCON HALF CUT PV MODULE HIGH EFFICIENCY



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



N-TYPE TOPCON CELL TECHNOLOGY

Based on M10-182mm 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



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, Phu My City, Ba Ria - Vung Tau Province, Vietnam.
 Tel: +84 (0)28 7300 1559 | Email: info@irex.vn | Website: www.irex.vn



SOLAR MODULE 575 - 590 W

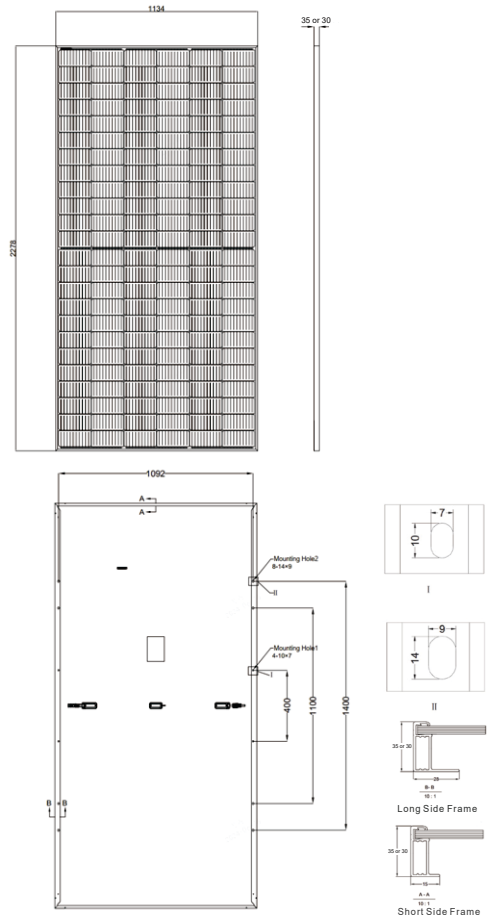


Electrical Characteristics

Module Type	IRM72H3-575		IRM72H3-580		IRM72H3-585		IRM72H3-590	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax)	575	435	580	438	585	442	590	446
Open Circuit Voltage (Voc)	51.27	48.54	51.47	48.77	51.67	48.96	51.87	49.13
Short Circuit Current (Isc)	14.31	11.54	14.37	11.59	14.43	11.64	14.49	11.69
Maximum Power Voltage (Vmp)	42.44	40.13	42.59	40.30	42.74	40.41	42.89	40.59
Maximum Power Current (Imp)	13.55	10.84	13.62	10.87	13.69	10.94	13.76	10.99
Module Efficiency at STC(ηm)	22.3		22.5		22.7		22.8	
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



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

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

Mechanical Specifications

External Dimensions	2278 x 1134 x 35 (30) mm
Weight	27.8 (26.8) kg
Solar Cells	N-type Topcon Mono 91 x 182 mm (144 pcs)
Front Glass	3.2mm AR coating tempered glass, low iron
Frame	Anodized aluminium alloy
Junction Box	IP68, 3 diodes
Output Cables	4.0mm ² , 300mm(+)/200mm(-) or Customized Length
Mechanical Load	Front side 5400Pa/ Rear side 2400Pa

Packing Configuration

	2278 x 1134 x 35 mm		2278 x 1134 x 30 mm	
	20'GP	40'HQ	20'GP	40'HQ
Container	31	31	36	36
Pieces per Pallet	4	20	4	20
Pallets per Container	124	620	144	720

Performance

