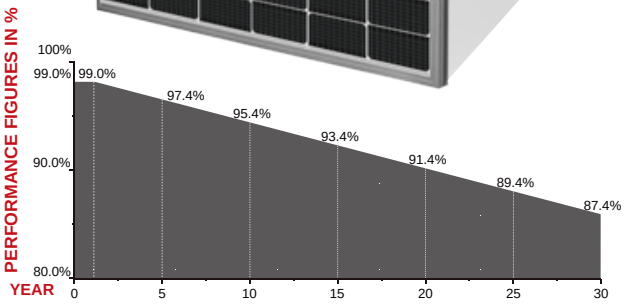
SOLAR MODULE
575 - 590 W

M10 - TOPCON HALF CUT PV MODULE HIGH EFFICIENCY DUAL GLASS



GUARANTEED MODULE PERFORMANCE FROM IREX ENERGY JSC

N-TYPE TOPCON CELL TECHNOLOGY
Based on M10-182mm wafer with multi-busbar
N-Type wafer and TOPCon technology

MODULE TECHNOLOGY
Double-sided power generation
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

0 ~ +5W Power Tolerance

15 - years Material & workmanship

30 - years Linear power Output

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!

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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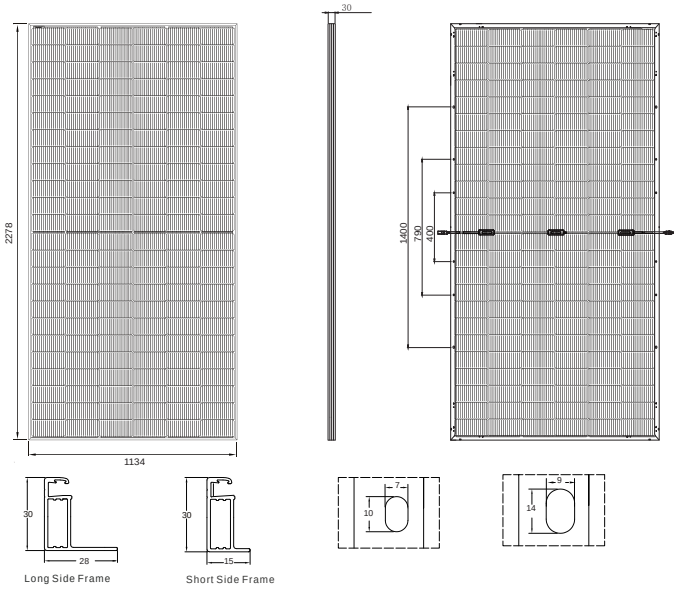
IREX - RM72H/TBDS - Series
Version: 00 Page: 1/2

SOLAR MODULE

575 - 590 W

Mechanical Specifications

External Dimensions	2278 x 1134 x 30 mm
Weight	31.0 kg
Solar Cells	N-type TOPCon Mono 91 x 182 mm (144 pcs)
Glass	Front: 2.0 mm, AR coating, semi-tempered
	Rear: 2.0 mm, semi-tempered
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



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

Electrical Characteristics

Module Type	IRM72HTBD3-575		IRM72HTBD3-580		IRM72HTBD3-585		IRM72HTBD3-590	
	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	48.56	51.47	48.73	51.67	48.92	51.87	49.12
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	40.14	42.59	40.30	42. 74	40.45	42.89	40.58
Maximum Power Current (Imp)	13.55	10.81	13.62	10.87	13.69	10.93	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	35 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

Different Rearside Power Gain

	(Reference to 585 W)		
Rearside Power Gain	5%	10%	20%
Maximum Power at STC (Pmax)	614.3	643.5	702.0
Open-circuit Voltage (Voc/V)	51.7	51.7	51.7
Short-circuit Current (Isc/A)	15.2	15.9	17.3
Maximum Power Voltage (Vmp/V)	42.7	42.7	42.7
Maximum Power Current (Imp/A)	14.4	15.1	16.4
Module Efficiency (%)	23.8	24.9	27.2

*The above data is for reference only. When signing a contract, the latest version of the product specification shall prevail.

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

	2278 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