

# SOLAR MODULE 395 - 410 W



## M10 - HALF CUT PV MODULE HIGH EFFICIENCY



### ADVANCED PERC 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 0.55%  
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 (withstand wind, snow, static or ice)  
up to 5400Pa  
Ideal for PV rooftops, ground mount, floating



### THE #1 DOMESTIC PV MANUFACTURER IN VIETNAM

100% Automatic production line  
International quality PV technology

**0 ~ +5W**

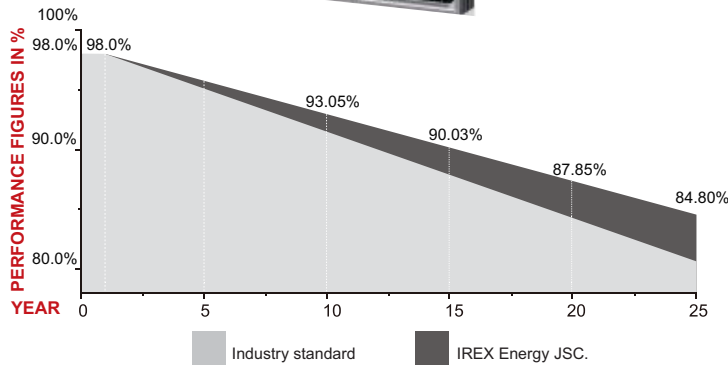
Power Tolerance

**12 - years**

Material & workmanship

**25 - years**

Linear power Output



**ADDITIONAL LINEAR WARRANTY VALUE FROM IREX ENERGY JSC**

## CERTIFICATES



ID 44 100 21 94 0003



ISO 14001:2015  
Environmental Management System  
qms.com.au



ID 44 780 22 406749 - 080

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

## 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 25 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,  
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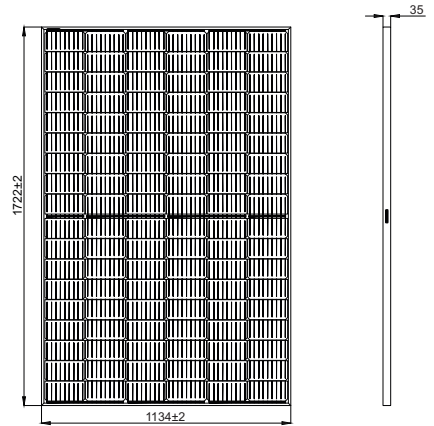


## Electrical Characteristics

Module Type	IRM54H3-395		IRM54H3-400		IRM54H3-405		IRM54H3-410	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power at STC (Pmp)	395	293.8	400	301.3	405	305.1	410	308.9
Open Circuit Voltage (Voc)	36.76	34.39	36.91	34.53	37.06	34.67	37.21	34.81
Short Circuit Current (Isc)	13.61	10.99	13.68	11.04	13.75	11.10	13.82	11.16
Maximum Power Voltage (Vmp)	31.04	28.57	31.20	28.79	31.36	29.00	31.52	29.21
Maximum Power Current (Imp)	12.73	10.41	12.82	10.47	12.91	10.52	13.01	10.57
Module Efficiency at STC(ηm)	20.23		20.48		20.74		21.00	
Power Tolerance	(0 ~ +5 W)							
Maximum System Voltage	1500 VDC							
Maximum Series Fuse Rating	25 A							

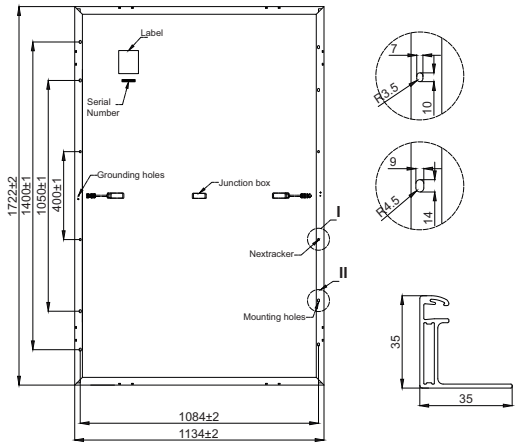
STC: Irradiance 1000 W/m<sup>2</sup>, cell temperature 25°C, spectrum AM1.5

NMOT: Irradiance 800 W/m<sup>2</sup>, ambient temperature 20°C, spectrum AM1.5, wind speed 1m/s



## Temperature Characteristics

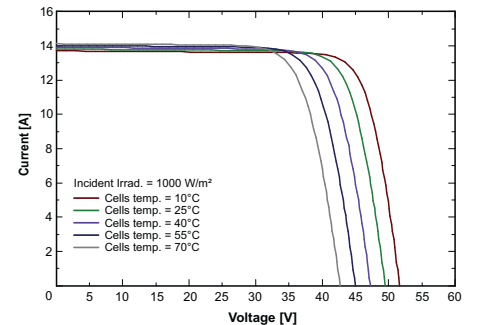
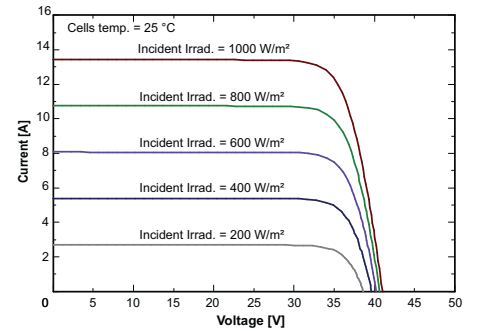
Pmax Temperature Coefficient	-0.350 %/°C
Voc Temperature Coefficient	-0.275 %/°C
Isc Temperature Coefficient	+0.045 %/°C
Operating Temperature	-40 ~ +85 °C
Nominal Module Operating Temperature (NMOT)	45 ± 2 °C



## Mechanical Specifications

External Dimensions	1722 x 1134 x 35 mm
Weight	21.0 kg
Solar Cells	PERC Mono 91 x 182 mm (108 pcs)
Front Glass	3.2mm AR coating tempered glass, low iron
Frame	Anodized aluminium alloy
Junction Box	IP68, 3 diodes
Output Cables	4.0mm <sup>2</sup> , 250mm(+)/350mm(-) or Customized Length
Mechanical Load	Front side 5400Pa/ Rear side 2400Pa

## Performance



## Packing Configuration

	1722 x 1134 x 35 mm	
Container	20'GP	40'HQ
Pieces per Pallet	31	31
Pallets per Container	6	24
Pieces per Container	186	806