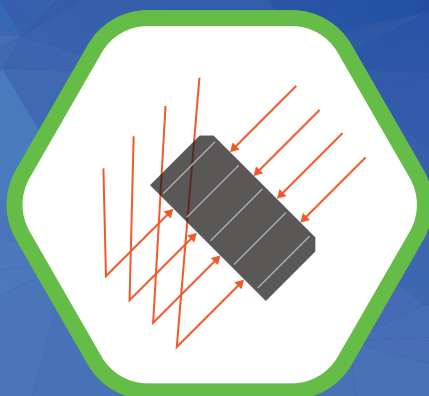


**25** YEARS  
OF ENERGISING  
CHANGE

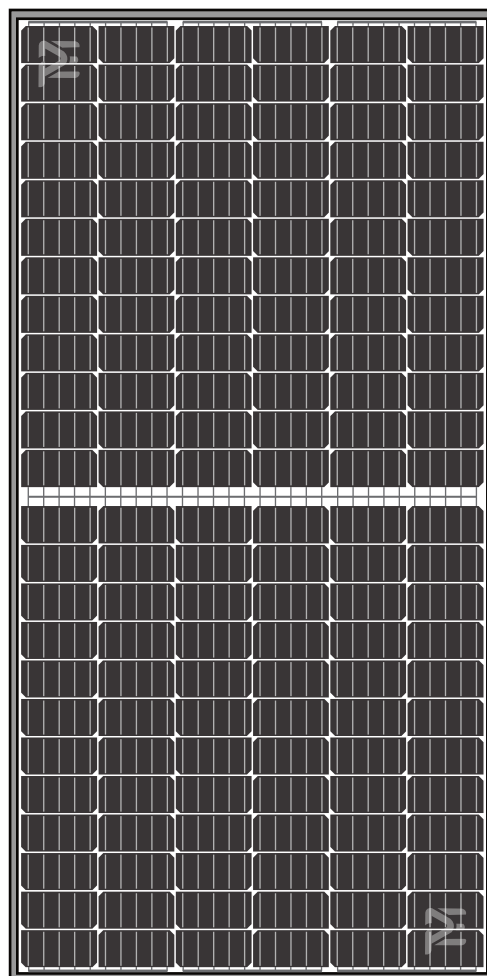
**PREMIER  
ENERGIES**  
(FORMERLY PREMIER SOLAR SYSTEMS)

**BIFACIAL MODULE WITH  
TRANSPARENT BACKSHEET**

*Dual side power generation  
with higher power output*



**144 CELL  
TRANSPARENT  
SOLAR PV MODULE  
MONO PERC  
390-405 W**



Reach us at -



[sales@premierenergies.com](mailto:sales@premierenergies.com)



[www.premierenergies.com](http://www.premierenergies.com)

## 144 Cell Transparent Solar PV Module - Mono Perc 390-405 W

### ELECTRICAL CHARACTERISTICS

Module Type	PSS-24390HM	PSS-24395HM	PSS-24400HM	PSS-24405HM
Maximum Power (Pmp)	390	395	400	405
Open Circuit Voltage (Voc)	47.24	47.28	47.32	47.36
Short Circuit Current (Isc)	10.50	10.62	10.72	10.87
Maximum Power Voltage (Vmp)	39.45	39.49	39.53	39.57
Maximum Power Current (Imp)	9.89	10.00	10.12	10.24
Module Efficiency (ηm)	19.27	19.52	19.76	20.01
Power Tolerance	(-0, +10W)			
Maximum System Voltage	1500 VDC			
Maximum Series Fuse Rating	25 A			

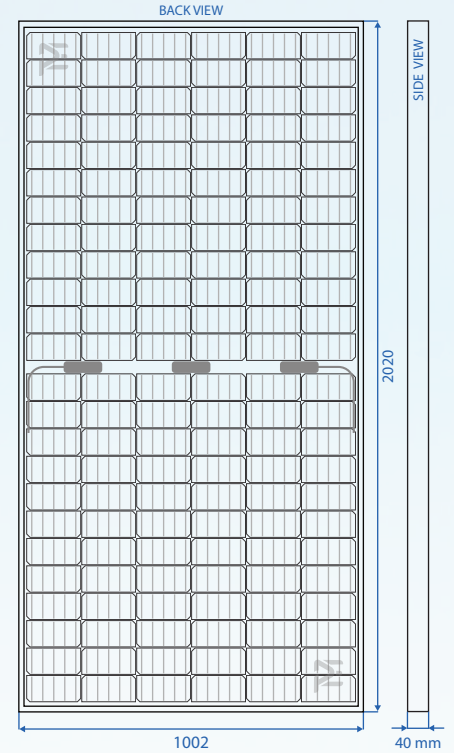
 Irradiance 1000 W/m<sup>2</sup> module temperature 25°C AM=1.5

### BIFACIAL OUTPUT-REAR SIDE POWER GAIN

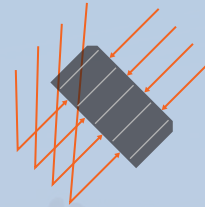
5%	Maximum Power (Pmp)	410	415	420	425
	Module Efficiency STC (%)	20.23	20.49	20.75	21.01
15%	Maximum Power (Pmp)	449	454	460	466
	Module Efficiency STC (%)	22.16	22.44	22.73	23.01
25%	Maximum Power (Pmp)	488	494	500	506
	Module Efficiency STC (%)	24.09	24.39	24.70	25.01

### TEMPERATURE CHARACTERISTICS

Pmax Temperature Coefficient	-0.29% / °C
Voc Temperature Coefficient	-0.23% / °C
Isc Temperature Coefficient	0.07% / °C
Operating Temperature	-40°C TO +85°C
Nominal Operating Cell Temperature	45 ± 2°C
Bifacial Factor	70+/-5%



### BIFACIAL MODULE WITH TRANSPARENT BACKSHEET



### KEY FEATURES:

**5 Busbar Solar Cell**

**Higher Lifetime Power Yield**

**Light weight design  
due to transparent backsheet**

**Better low-light performance**

**Up to 25% power gain  
depending on albedo  
and PV system design**

### MECHANICAL SPECIFICATIONS

External Dimensions	2020 x 1002 x 40 mm
Weight	24.5 kg
Solar Cells	Mono PERC Crystalline 158.75 x 158.75 mm
Front Glass	3.2mm, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	3 Split, IP68 Rated
Output Cable	4.0 Sqm
Connector	MC4 Compatible
Mechanical Load	5400 Pa for Snow Load, 2400 Pa Wind Load

### PACKING CONFIGURATION

Container	20' GP	40' GP
Pieces per Pallet	25	25
Pallets per Container	10	22
Pieces per Container	250	550

For more details, please consult Premier Energies.