

# OSHC144- 525W ~ 550W



**POWER RANGE - 525W / 550W**

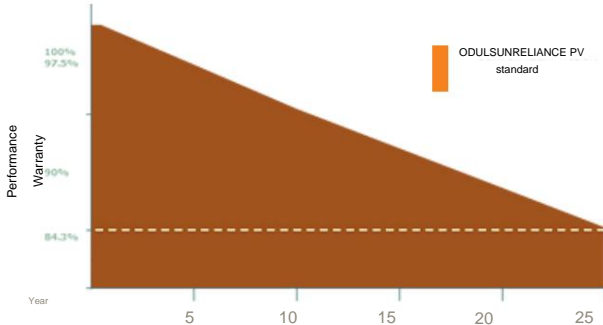
**POSITIVE POWER TOLERANCE - 0 / +5W**

**MAXIMUM EFFICIENCY - 21.3%**

**10 Years Reward Solar Workmanship Warranty**

**25 Years Linear Efficiency Guarantee**

## LINER PERFORMANCE GUARANTEE



The average annual power loss from the 2nd year to the 25th year will not be more than 0.55%.

-  Positive Power Tolerance 0 /+5 Wp
-  Module Efficiency Up to 21.3%
-  10 Year Manufacturer Warranty
-  Full Compliance with International Norms
-  25 Years 80% Linear Performance Guarantee
-  Double Sided Power Generation
-  100% EL Test at 2 Separate Points
-  Low Risk of Micro Cracks



EC61215: Photovoltaic Module Design Qualification and Type Approval  
 IEC61730: Photovoltaic Module Safety Qualification  
 ISO9001: Quality Management System  
 ISO14001: Environmental Management System Certificate  
 OHSAS 18001: Occupational Health and Safety Management System

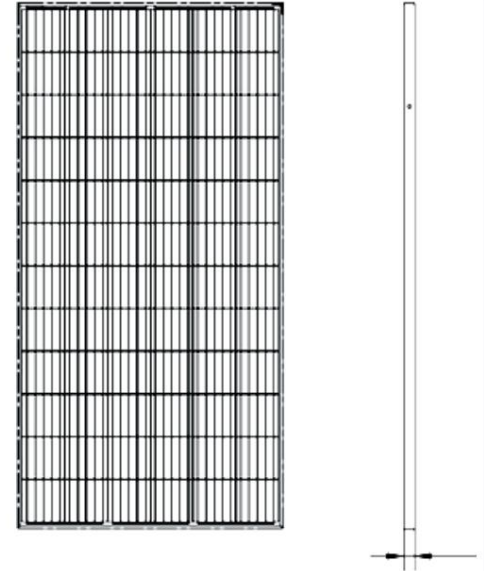
# SINGLE FACED FULL CELL FRAMED MODULE



OSHC144 - 525W ~ 550W

## Mechanical Properties

Cell	Module	Mono-C Silicon BifaciPERC	Module Dimensions	Length	2279mm
	Piece	144 Pieces Half Cell		Width	1134mm
	Dimension	182mm x 91mm		Thickness	35mm
Connection Box	Bypass Diode	3 pieces	Assembly the gap	Piece	12pcs
	Protection Class	IP67/IP68		Dimension	9x14mm Radius 4.5mm
	Output Cables	0.40		Mounting Hole Spacing (Long Side)	1676/1176/400 mm
	connector	Compatible with MC4		Mounting Hole Spacing (Short edge)	1088mm
	Rated Current	γ25A		Weight	35mm Frame 27kg
Ground the gap	Piece	8 pieces	Isc Temperature Coefficient		+0.049%/°C
	Dimension	Width: 4 mm	Voc Temperature Coefficient		-0.28%/°C

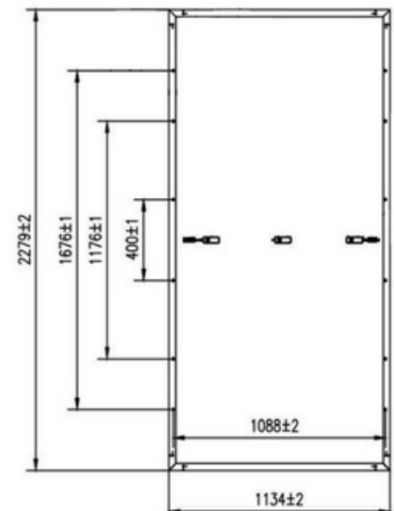


## System features

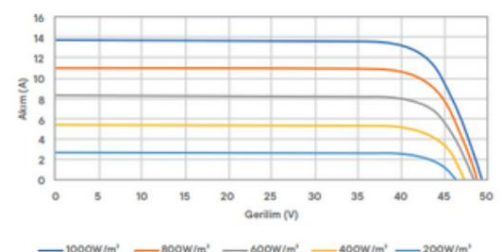
System Voltage	1500VDC	Maximum Mechanical Strength	Negative	2400Pa
			Positive	3600Pa
Operating Temperature	-40 ~+ 85°C	Rated Working Cell Temperature		45 ± 2°C
Maximum Series Insurance Value	25A	Fire Type 1		Protection Type: Class 2

## Electrical Properties

Model Type	525		530		535		540		545	
Test Conditions	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax)	525	390	530	394	535	398	540	402	545	405
Module Efficiency	20.31	18.86	20.51	19.06	20.70	19.25	20.89	19.44	21.09	19.59
Maximum Power Voltage (Vmp)	41.20	37.82	41.35	37.96	41.50	38.12	41.65	38.26	41.80	38.39
Maximum Power Current (Imp)	12.75	10.33	12.83	10.39	12.90	10.45	12.97	10.51	13.04	10.57
Open Circuit Voltage (Voc)	49.05	45.70	49.20	45.80	49.35	46.00	49.50	46.10	49.65	46.20
Short circuit Current (Isc)	13.66	11.03	13.72	11.07	13.78	11.13	13.85	11.19	13.92	11.24
Power Tolerance	0~+5W									



FACE IV CURVE @ 200, 400, 600, 800, 1000 W/M<sup>2</sup>



\* Standard test conditions (STC): Irradiance 1000 W/m<sup>2</sup>, Air Mass 1.5, Cell Temperature 25 °C. Measurement Tolerance ±2.5%. \*\* Nominal Module Operating Temperature (NMOT): Irradiance 800 W/m<sup>2</sup>, Ambient Temperature 20 °C, Wind Speed 1 m/s.