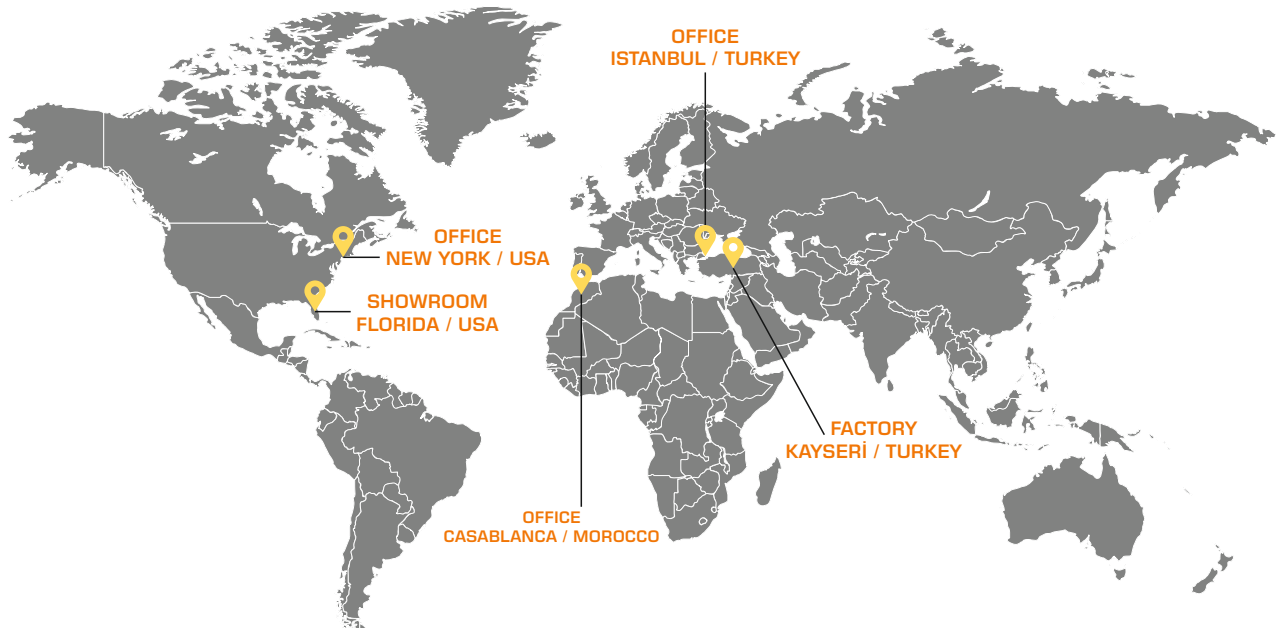


ADUL SUNRELIANCE

“We grow solar!”





ABOUT US

Ödül Solar Energy has been established in Kayseri Mimarşinan Industrial Zone in 2013. Founding purpose; to produce high-performance solar power products that convert sunlight into electricity for residents, commercial and utility-scale power in domestic market and moreover make a strategic role in international market.

Sun Reliance, have done many projects in the renewable energy industry especially in the USA with having over 15 years experience.

Ödül Solar Enerji and Sun Reliance, has merged their capabilities, experiences and united their forces in **Odul Sun Reliance** to contribute renewable energy field more. Arien Solar Enerji has been established as a group company to market and sell Odul Sun Reliance products.

Odul Sun Reliance guarantees 10 years product durability, 10 years 90% efficiency and 25 years 80% linear efficiency to the panels it produces.

Odul Sun Reliance, with 235 MW yearly capacity, serve to contribute to the solar sector by moving towards a single direction together with our partners and clients with closely following the improvements in the field, offering new solutions to the market with keeping the customer satisfaction top priority without compromising on the quality. We specialize in distributing our top-of-the-line supplies to businesses all over the world, while also maintaining great options for your personal needs. We invite you to explore our Solar World to find out why we are the best Solar Energy Solutions Supplier in the industry.

VISION

Odul Sun Reliance, as a global company that offers innovative solutions to the market, by following all the developments in the solar energy industry with our expert staff.

MISSION

Keeping customer satisfaction at the highest level without sacrificing quality, improving and sustaining our services,

Prioritizing Research and Development (R&G) studies for the development of solar energy systems,

To act on the consciousness of our responsibility to the environment and nature, contributing to a cleaner and livable world for our future generations





Maximum Control, Maximum Quality

- 1- Robotic Cell Control
- 2- String Control
- 3- Automatic Alignment Control
- 4- EL Test before Laminator Stage
- 5- Visual Control before Laminator Stage
- 6- Visual Control after Laminator Stage
- 7- EL Test after Laminator Stage
- 8- Flash Test / Sun Simulator
- 9- Diode Test
- 10- Grounding Test

ODUL
SUNRELIANCE

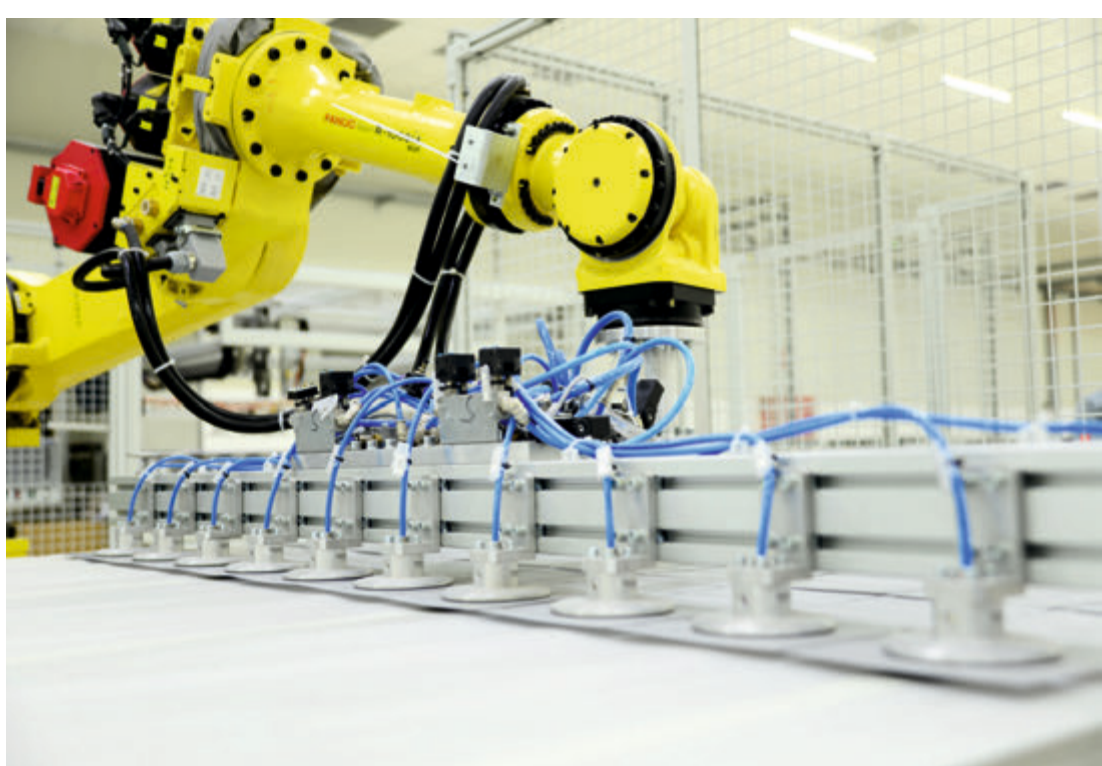
PRODUCTION LINE



Production Efficiency

In our facility, 235 MW Photovoltaic (PV) modules are produced annually with the aim of maximum quality and minimum efficiency loss at every stage of production. Produces modules by closely following the developing cell technology that will accelerate the sector.

In order to increase production efficiency, we optimize the production processes by using environmentally friendly technologies in our 12.000 m² facility.



QUALITY POLICY

Odul Sun Reliance guarantees 10 years product durability, 10 years 90% efficiency and 25 years 80% linear efficiency to the panels it produces.

Odul Sun Reliance which has ISO 9001 Quality Management System, ISO 14001 Environmental Management System and OHSAS 18001 Occupational Health and Safety Management Systems IEC 61215 and IEC 61730 certification, does world-class production.

CERTIFICATION





WE CONTRIBUTE TO THE FIGHT WITH CLIMATE CHANGE!

As the tendency towards renewable energy sources increases, it is accepted by all authorities where greenhouse gas emissions and therefore global warming decrease. Generating energy from clean sources has become one of the most effective ways of protecting the environment with increasing awareness about climate and environmental protection. We can reduce CO₂ emissions by preferring solar energy which is one of the clean energy sources against climate change and global warming.

By producing your electricity with photovoltaic solar panels in your home and workplace, you can fight global warming by reducing CO₂ emission by up to 97% compared to other energy sources.

Odul Sun Reliance is aware of its responsibilities to the environment and nature and contributes to protect our environment by preventing CO₂ emission in energy production with solar panels.



Over **%18,8** Cell
Efficiency



60 CELL POLYCRYSTALLINE MODULE

275W - 290W
OUTPUT POWER RANGE

OVER **%17,8**
PANEL EFFICIENCY

0~+5Wp
POSITIVE OUTPUT TOLERANCE

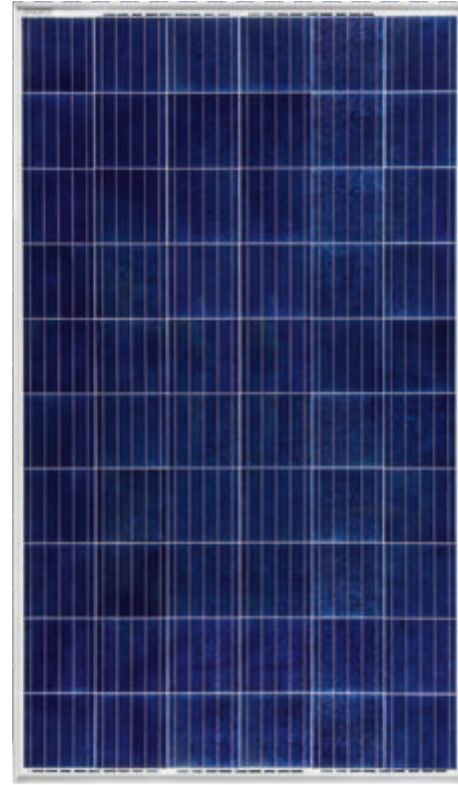
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IEC61730: Photovoltaic Module Safety Qualification - Requirements for Construction
ISO 9001: Quality management system
ISO 14001: Environmental Management System Certificate
OHSAS 18001: Occupational Health and Safety Management System



**Positive Output
Tolerance**



**Compatible with
International Standards**



**1500V Maximum
System Voltage**



**5400 Pa Snow Load
2400 Pa Wind Load
Resistance**



**10 Years Producer
Warranty**



**Over %17,8 Panel
Efficiency**



**100 % EL Double
EL Inspection**



**High Quality Junction
Box and Plugging System**

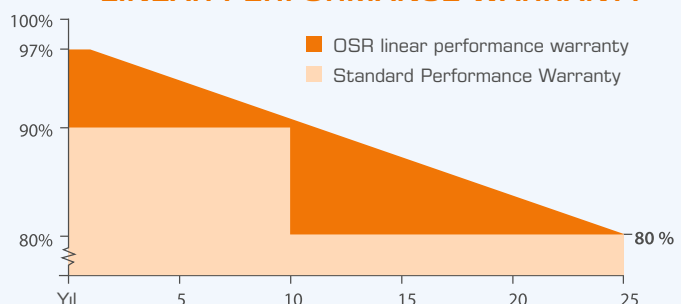


**Type 1, Type 2
A Class Fire Protection**



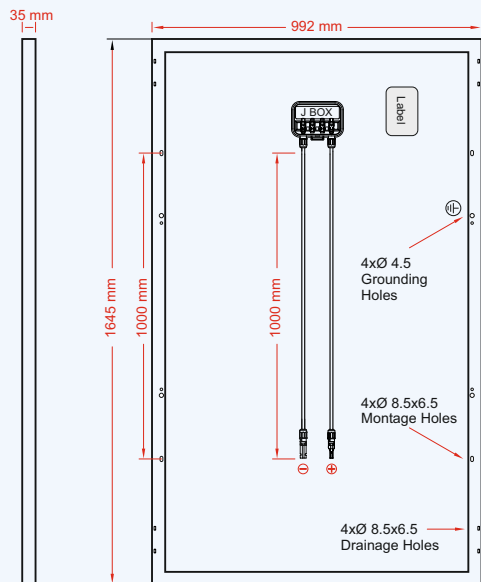
**25 Years Linear
Performance Warranty**

LINEAR PERFORMANCE WARRANTY

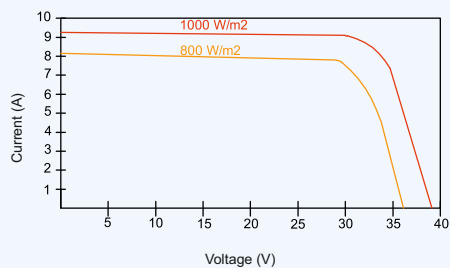


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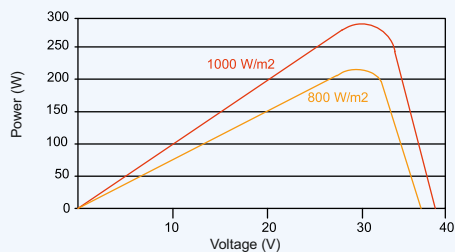
MODULE DIMENSIONS (mm)



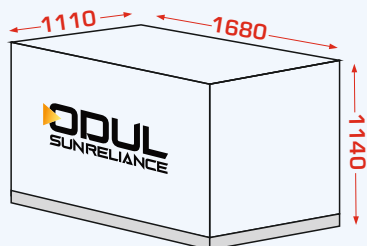
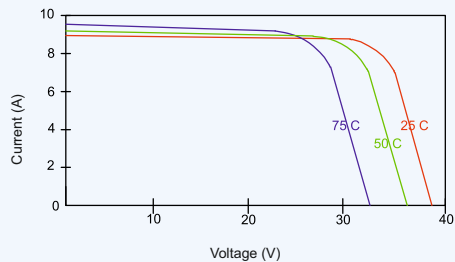
CURRENT VOLTAGE CURVE



POWER VOLTAGE CURVE



CURRENT VOLTAGE CURVE



ELECTRICAL PARAMETERS (STC)

	Unit	OSP60-275W	OSPp60-280W	OSPp60-285W	OSPp60-290W
Maximum Power	P _{maks} (Wp)	275	280	285	290
Positive Output Tolerance		0 ~ +5W			
Max. Power Voltage	V _{mpp} (V)	31,46	31,21	31,39	31,54
Max. Power Current	I _{mpp} (A)	8,85	8,99	9,10	9,21
Open Circuit Voltage	V _{oc} (V)	38,33	38,7	38,92	39,21
Short Circuit Voltage	I _{sc} (A)	9,235	9,57	9,65	9,73
Module Efficiency	η _m (%)	16,9	17,2	17,5	17,85

STC: 1000W/m² Irradiation / 25°C Cell Temperature / AM=1,5 / Measurement Accuracy ±%3 / 1m/s Wind Speed

ELECTRICAL PARAMETERS (NOTC)

	Unit	OSP60-275W	OSPp60-280W	OSPp60-285W	OSPp60-290W
Maximum Power	P _{maks} (Wp)	208	211	213,4	217,4
Max. Power Voltage	V _{mpp} (V)	29,8	28,25	28,42	28,54
Max. Power Current	I _{mpp} (A)	6,97	7,45	7,51	7,62
Open Circuit Voltage	V _{oc} (V)	36,3	35,33	35,51	35,73
Short Circuit Voltage	I _{sc} (A)	7,5	8,09	8,17	8,2

NOTC: 800W/m² Irradiation / 20°C Cell Temperature / AM=1,5 / Measurement Accuracy ±%3 / 1m/s Wind Speed

MECHANICAL COMPONENTS

Cell Type	Polycrystalline Perc Cell / 156.75 mm x 156.75 mm
Cell Amount	60 Cell (6x10)
Panel Size	992 x 1645 x 35 mm
Weight	19 Kg
Glass	3.2 mm (0,125")Low Ironed High-Pass Tempered Glass
Back Surface	Multi Layered White Polimer Film
Frame	White Anodized Aluminium
Junction Box	IP 67 or IP 68 - 1500 VDC / 15A
Output Cables	IEC, UL approved (4 mm ² , 12 AWG) (PV Cable Type) , 1000mm
Connector	Compatible MC4 (IP67, IEC and UL approved)
Fire Resistance	Type 1, Type 2 - A Class
Impact Resistance	Decreased from "51,19 / 1300 mm, (1.18 lbs / 535g) Steel Ball Test

TEMPERATURE COEFFICIENTS

NOTC (Nominal Cell Working Temperature)	45°C (± 2°C)
Temperaure Coefficient (P _{max})	-0,40 %/°C
Temperaure Coefficient (V _{oc})	-0,3409 %/°C
Temperaure Coefficient (I _{sc})	+0,0447 %/°C

WORKING CONDITIONS

Working Temperature	-40~+85°C
Max. System Voltage	1500V DC (UL / IEC)
Max. Reverse Current	15A / 20A
Maximum Load	75 lbs ft (UL Standard) 5400 Pa (IEC Standard)

PACKAGING

Pallet Size: 1110x1680x1140 mm
Modules per Pallet: 30 Pieces
Total Weight: 565 Kg
Modules per 40 HC Container: 840 Pieces
Modules per 20 DC Container: 360 Pieces

WARRANTY

10 Years OSR Mechanical Warranty
25 Years Linear Performance Warranty



Over **%18,8** Cell
Efficiency



72 CELL POLYCRYSTALLINE MODULE

325W - 345W
OUTPUT POWER RANGE

OVER **%17,7**
PANEL EFFICIENCY

0~+5Wp
POSITIVE OUTPUT TOLERANCE

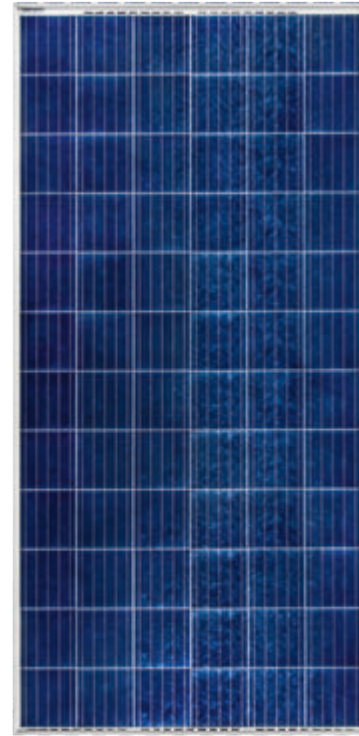
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OHSAS 18001: Occupational Health and Safety Management System



**Positive Output
Tolerance**



**Compatible with
International Standards**



**1500V Maximum
System Voltage**



**5400 Pa Snow Load
2400 Pa Wind Load
Resistance**



**10 Years Producer
Warranty**



**Over %17,7 Panel
Efficiency**



**100 % EL Double
EL Inspection**



**High Quality Junction
Box and Plugging System**

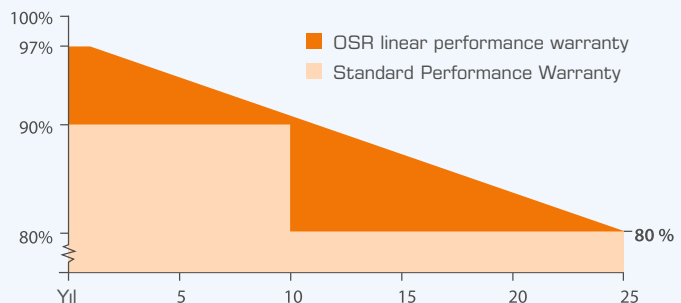


**Type 1, Type 2
A Class Fire Protection**



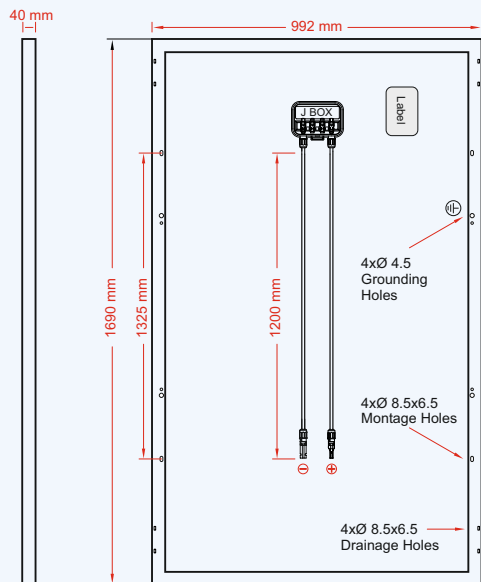
**25 Years Linear
Performance Warranty**

LINEAR PERFORMANCE WARRANTY

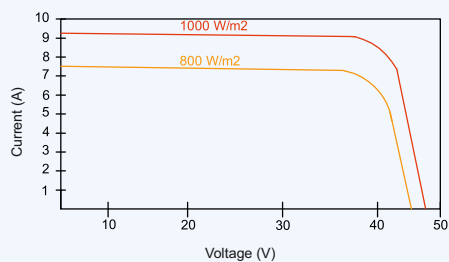


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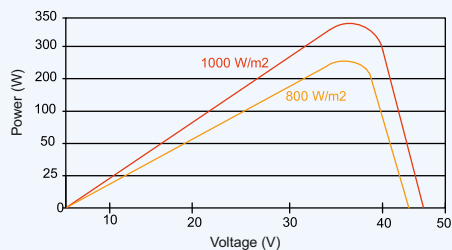
MODULE DIMENSIONS (mm)



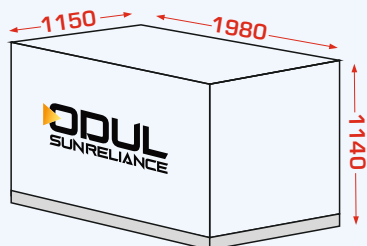
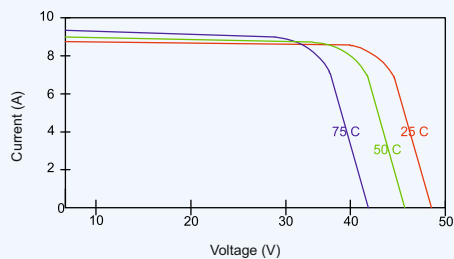
CURRENT VOLTAGE CURVE



POWER VOLTAGE CURVE



CURRENT VOLTAGE CURVE



ELECTRICAL PARAMETERS (STC)

	Unit	OSP72-325W	OSP72-330W	OSP72-335W	OSP72-340W	OSP72-345W
Maximum Power	P _{maks} (Wp)	325	330	335	340	345
Positive Output Tolerance		0 ~ +5W				
Max. Power Voltage	V _{mpp} (V)	37,4	37,7	37,27	37,32	37,39
Max. Power Current	I _{mpp} (A)	8,7	8,8	9,01	9,13	9,23
Open Circuit Voltage	V _{oc} (V)	45,59	45,8	45,99	46,18	46,39
Short Circuit Voltage	I _{sc} (A)	9,24	9,3	9,57	9,60	9,66
Module Efficiency	η _m (%)	16,71	16,97	17,22	17,48	17,74

STC: 1000W/m² Irradiation / 25°C Cell Temperature / AM=1,5 / Measurement Accuracy ±%3 / 1m/s Wind Speed

ELECTRICAL PARAMETERS (NOTC)

	Unit	OSP72-325W	OSP72-330W	OSP72-335W	OSP72-340W	OSP72-345W
Maximum Power	P _{maks} (Wp)	241	244	247	251	255
Max. Power Voltage	V _{mpp} (V)	34,7	34,9	35	35,3	35,6
Max. Power Current	I _{mpp} (A)	6,95	7	7,05	7,11	7,16
Open Circuit Voltage	V _{oc} (V)	42,13	42,3	42,5	42,8	43
Short Circuit Voltage	I _{sc} (A)	7,48	7,51	7,62	7,67	7,7

NOTC: 800W/m² Irradiation / 20°C Cell Temperature / AM=1,5 / Measurement Accuracy ±%3 / 1m/s Wind Speed

MECHANICAL COMPONENTS

Cell Type	Polycrystalline Perc Cell / 156.75 mm x 156.75 mm
Cell Amount	72 Cell (6x12)
Panel Size	1960 x 992 x 40 mm
Weight	22 Kg
Glass	3.2 mm (0,125") Low Ironed High-Pass Tempered Glass
Back Surface	Multi Layered White Polymer Film
Frame	White Anodized Aluminium
Junction Box	IP 67 or IP 68 - 1500 VDC / 15A
Output Cables	IEC, UL approved (4 mm², 12 AWG) (PV Cable Type) , 1000mm
Connector	Compatible MC4 (IP67, IEC and UL approved)
Fire Resistance	Type 1, Type 2 - A Class
Impact Resistance	Decreased from "51,19 / 1300 mm, (1.18 lbs / 535g) Steel Ball Test

TEMPERATURE COEFFICIENTS

NOTC (Nominal Cell Working Temperature)	45°C (± 2°C)
Temperature Coefficient (P _{max})	-0,40 %/°C
Temperature Coefficient (V _{oc})	-0,3409 %/°C
Temperature Coefficient (I _{sc})	+0,0447 %/°C

WORKING CONDITIONS

Working Temperature	-40~+85°C
Max. System Voltage	1500V DC (UL / IEC)
Max. Reverse Current	15A / 20A
Maximum Load	75 lbs ft (UL Standard) 5400 Pa (IEC Standard)

PACKAGING

Pallet Size: 1150x1980x1140 mm
Modules per Pallet: 28 Pieces
Total Weight: 640 Kg
Modules per 40 HC Container: 720 Pieces
Modules per 20 DC Container: 240 Pieces

WARRANTY

10 Years OSR Mechanical Warranty
25 Years Linear Performance Warranty



Over **%21,9** Cell
Efficiency



60 CELL MONOCRYSTALLINE MODULE

300W - 320W
OUTPUT POWER RANGE

OVER %19
PANEL EFFICIENCY

0~+5Wp
POSITIVE OUTPUT TOLERANCE

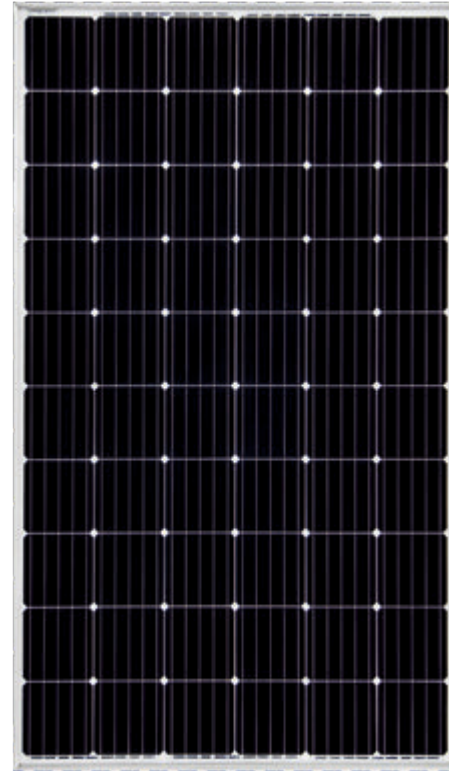
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**Positive Output
Tolerance**



**Compatible with
International Standards**



**1500V Maximum
System Voltage**



**5400 Pa Snow Load
2400 Pa Wind Load
Resistance**



**10 Years Producer
Warranty**



**Over %19 Panel
Efficiency**



**100 % EL Double
EL Inspection**



**High Quality Junction
Box and Plugging System**

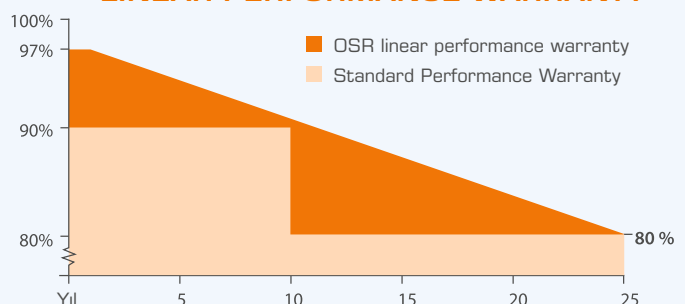


**Type 1, Type 2
A Class Fire Protection**



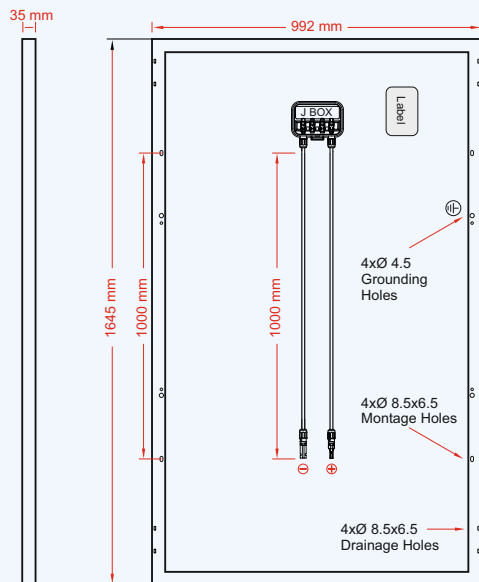
**25 Years Linear
Performance Warranty**

LINEAR PERFORMANCE WARRANTY

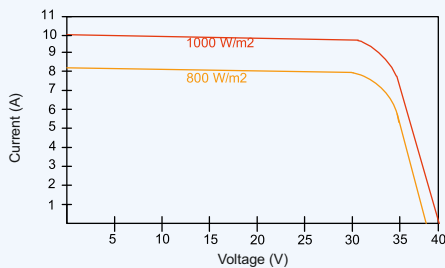


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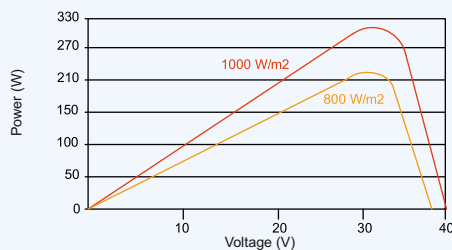
MODULE DIMENSIONS (mm)



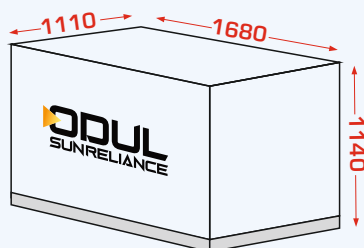
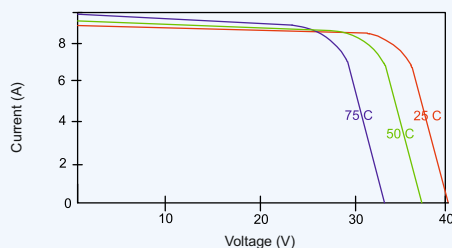
CURRENT VOLTAGE CURVE



POWER VOLTAGE CURVE



CURRENT VOLTAGE CURVE



ELECTRICAL PARAMETERS (STC)

	Unit	OSM60-300W	OSM60-305W	OSMp60-310W	OSMp60-315W	OSMp60-320W
Maximum Power	P _{maks} (Wp)	300	305	310	315	320
Positive Output Tolerance		0 ~ +5W				
Max. Power Voltage	V _{mpp} (V)	32,7	32,9	33,01	33,04	33,7
Max. Power Current	I _{mpp} (A)	9,2	9,28	9,41	9,5	9,55
Open Circuit Voltage	V _{oc} (V)	39,8	40,3	40,6	40,7	40,9
Short Circuit Voltage	I _{sc} (A)	9,77	9,79	9,922	10,01	10,3
Module Efficiency	η _m (%)	18,44	18,74	19,05	19,36	19,66

STC: 1000W/m² Irradiation / 25°C Cell Temperature / AM=1,5 / Measurement Accuracy ±%3 / 1m/s Wind Speed

ELECTRICAL PARAMETERS (NOTC)

	Unit	OSM60-300W	OSM60-305W	OSMp60-310W	OSMp60-315W	OSMp60-320W
Maximum Power	P _{maks} (Wp)	223	225	232	235	239
Max. Power Voltage	V _{mpp} (V)	30,2	30,5	30,9	31,3	31,5
Max. Power Current	I _{mpp} (A)	7,39	7,45	7,5	7,57	7,58
Open Circuit Voltage	V _{oc} (V)	37	37,3	37,5	37,6	37,9
Short Circuit Voltage	I _{sc} (A)	7,89	7,9	8,21	8,33	8,45

NOTC: 800W/m² Irradiation / 20°C Cell Temperature / AM=1,5 / Measurement Accuracy ±%3 / 1m/s Wind Speed

MECHANICAL COMPONENTS

Cell Type	Monocrystalline Perc Cell / 156.75 mm x 156.75 mm
Cell Amount	60 Cell (6x10)
Panel Size	992 x 1645 x 35 mm
Weight	19 Kg
Glass	3.2 mm (0,125") Low Ironed High-Pass Tempered Glass
Back Surface	Multi Layered White Polymer Film
Frame	White Anodized Aluminium
Junction Box	IP 67 or IP 68 - 1500 VDC / 15A
Output Cables	IEC, UL approved (4 mm², 12 AWG) (PV Cable Type) , 1000mm
Connector	Compatible MC4 (IP67, IEC and UL approved)
Fire Resistance	Type 1, Type 2 - A Class
Impact Resistance	Decreased from "51,19 / 1300 mm, (1.18 lbs / 535g) Steel Ball Test"

TEMPERATURE COEFFICIENTS

NOTC (Nominal Cell Working Temperature)	45°C (± 2°C)
Temperature Coefficient (P _{max})	-0,40 %/°C
Temperature Coefficient (V _{oc})	-0,3409 %/°C
Temperature Coefficient (I _{sc})	+0,0447 %/°C

WORKING CONDITIONS

Working Temperature	-40~+85°C
Max. System Voltage	1500V DC (UL / IEC)
Max. Reverse Current	15A / 20A
Maximum Load	75 lbs ft (UL Standard) 5400 Pa (IEC Standard)

PACKAGING

Pallet Size: 1110x1680x1140 mm
Modules per Pallet: 30 Pieces
Total Weight: 565 Kg
Modules per 40 HC Container: 840 Pieces
Modules per 20 DC Container: 360 Pieces

WARRANTY

10 Years OSR Mechanical Warranty
25 Years Linear Performance Warranty



Over **%21,9** Cell Efficiency



72 CELL MONOCRYSTALLINE MODULE

360W - 380W
OUTPUT POWER RANGE

OVER %19
PANEL EFFICIENCY

0~+5Wp
POSITIVE OUTPUT TOLERANCE

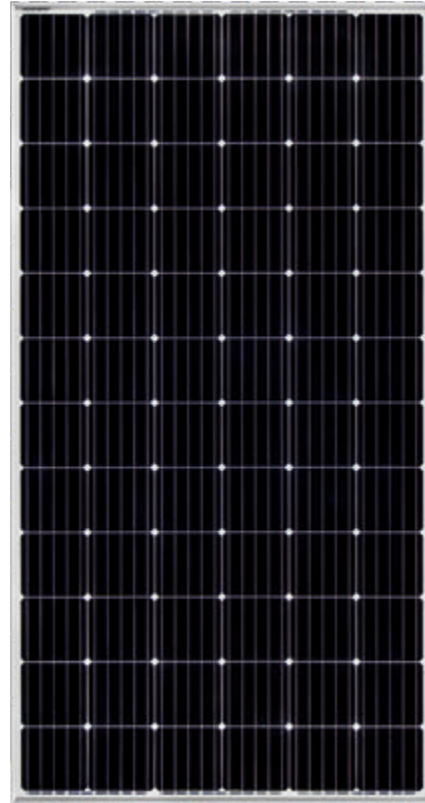
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Positive Output Tolerance



Compatible with International Standards



1500V Maximum System Voltage



**5400 Pa Snow Load
2400 Pa Wind Load Resistance**



10 Years Producer Warranty



Over %19 Panel Efficiency



100 % EL Double EL Inspection



High Quality Junction Box and Plugging System

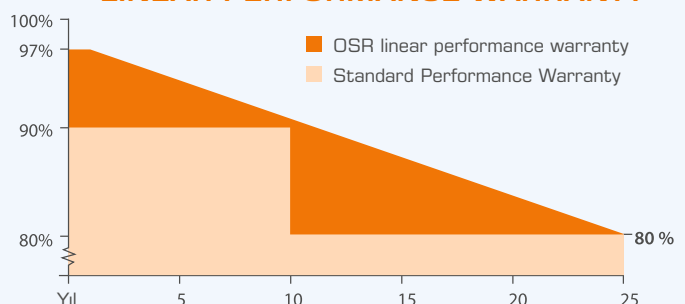


**Type 1, Type 2
A Class Fire Protection**



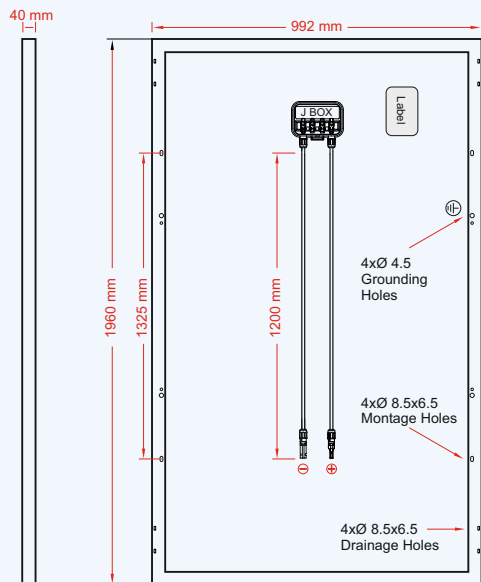
25 Years Linear Performance Warranty

LINEAR PERFORMANCE WARRANTY

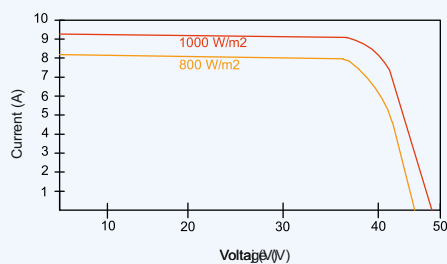


The data were measured under standard test conditions. It may vary depending on the ambient conditions.

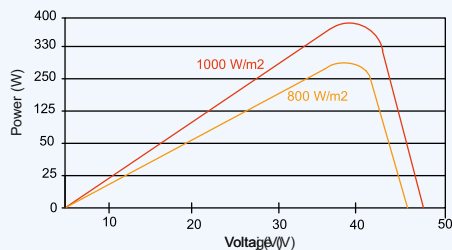
MODULE DIMENSIONS (mm)



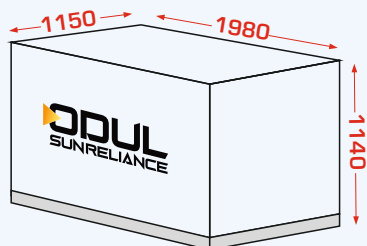
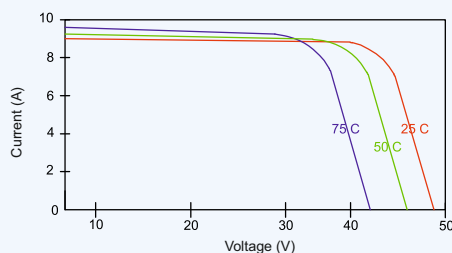
CURRENT VOLTAGE CURVE



POWER VOLTAGE CURVE



CURRENT VOLTAGE CURVE



ELECTRICAL PARAMETERS (STC)

	Unit	OSM72-360W	OSM72-365W	OSMp72-370W	OSMp72-375W	OSMp72-380W
Maximum Power	P _{maks} (Wp)	360	365	370	375	380
Positive Output Tolerance		0 ~ +5W				
Max. Power Voltage	V _{mpp} (V)	39,3	39,39	40	40,2	40,3
Max. Power Current	I _{mpp} (A)	9,18	9,27	9,28	9,33	9,43
Open Circuit Voltage	V _{oc} (V)	46,9	47,8	48,4	47,8	48,4
Short Circuit Voltage	I _{sc} (A)	9,57	9,6	9,6	9,63	9,7
Module Efficiency	η _m (%)	18,51	18,77	19,02	19,28	19,54

STC: 1000W/m² Irradiation / 25°C Cell Temperature / AM=1,5 / Measurement Accuracy ±%3 / 1m/s Wind Speed

ELECTRICAL PARAMETERS (NOTC)

	Unit	OSM72-360W	OSM72-365W	OSMp72-370W	OSMp72-375W	OSMp72-380W
Maximum Power	P _{maks} (Wp)	268	269	274	277	279
Max. Power Voltage	V _{mpp} (V)	36,3	36,5	36,7	36,9	37
Max. Power Current	I _{mpp} (A)	7,38	7,4	7,46	7,5	7,54
Open Circuit Voltage	V _{oc} (V)	43,6	44,3	45,8	46,3	46,6
Short Circuit Voltage	I _{sc} (A)	7,73	7,9	7,95	8	8,3

NOTC: 800W/m² Irradiation / 20°C Cell Temperature / AM=1,5 / Measurement Accuracy ±%3 / 1m/s Wind Speed

MECHANICAL COMPONENTS

Cell Type	Monocrystalline Perc Cell / 156.75 mm x 156.75 mm
Cell Amount	72 Cell (6x12)
Panel Size	992 x 1960 x 40 mm
Weight	22 Kg
Glass	3.2 mm (0,125") Low Ironed High-Pass Tempered Glass
Back Surface	Multi Layered White Polymer Film
Frame	White Anodized Aluminium
Junction Box	IP 67 or IP 68 - 1500 VDC / 15A
Output Cables	IEC, UL approved (4 mm ² , 12 AWG) (PV Cable Type) , 1000mm
Connector	Compatible MC4 (IP67, IEC and UL approved)
Fire Resistance	Type 1, Type 2 - A Class
Impact Resistance	Decreased from "51,19 / 1300 mm, (1.18 lbs / 535g) Steel Ball Test

TEMPERATURE COEFFICIENTS

NOTC (Nominal Cell Working Temperature)	45°C (± 2°C)
Temperature Coefficient (P _{max})	-0,40 %/°C
Temperature Coefficient (V _{oc})	-0,3409 %/°C
Temperature Coefficient (I _{sc})	+0,0447 %/°C

WORKING CONDITIONS

Working Temperature	-40~+85°C
Max. System Voltage	1500V DC (UL / IEC)
Max. Reverse Current	15A / 20A
Maximum Load	75 lbs ft (UL Standard) 5400 Pa (IEC Standard)

PACKAGING

Pallet Size: 1150x1980x1140 mm
Modules per Pallet: 28 Pieces
Total Weight: 640 Kg
Modules per 40 HC Container: 720 Pieces
Modules per 20 DC Container: 240 Pieces

WARRANTY

10 Years OSR Mechanical Warranty
25 Years Linear Performance Warranty



Over **%22,2** Cell Efficiency



60 CELL MONOCRYSTALLINE MODULE

325W - 335W
OUTPUT POWER RANGE

OVER %20
PANEL EFFICIENCY

0~+5Wp
POSITIVE OUTPUT TOLERANCE

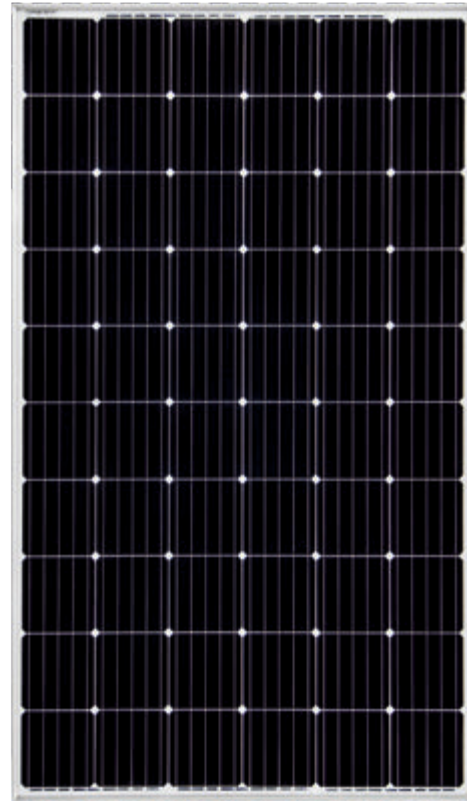
► **ODUL SUN RELIANCE** has been established to produce high-performance solar power products that convert sunlight into electricity for residents, commercial and utility-scale power in domestic market and moreover make a strategic role in international market.

ODUL SUN RELIANCE guarantees 10 years product durability, 10 years 90% efficiency and 25 years 80% linear efficiency to the panels it produces.

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QUALITY SYSTEMS AND CERTIFICATION

IEC61215: Crystalline Silicon Terrestrial Photovoltaic (PV) Modules- Design Qualification and Type Approval
IEC61730: Photovoltaic Module Safety Qualification - Requirements for Construction
ISO 9001: Quality management system
ISO 14001: Environmental Management System Certificate
OHSAS 18001: Occupational Health and Safety Management System



Positive Output Tolerance



Compatible with International Standards



1500V Maximum System Voltage



**5400 Pa Snow Load
2400 Pa Wind Load Resistance**



10 Years Producer Warranty



Over %20 Panel Efficiency



100 % EL Double EL Inspection



High Quality Junction Box and Plugging System

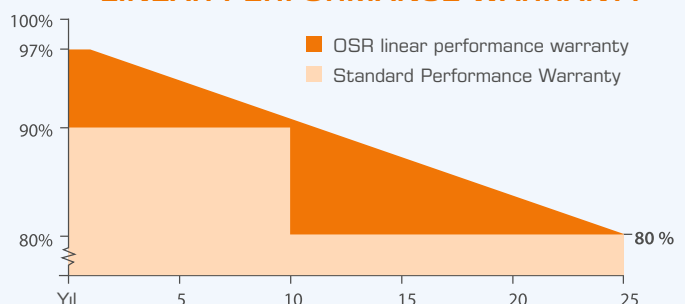


**Type 1, Type 2
A Class Fire Protection**



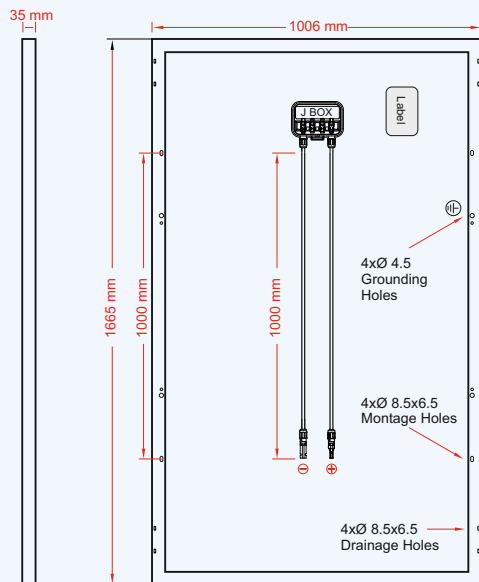
25 Years Linear Performance Warranty

LINEAR PERFORMANCE WARRANTY

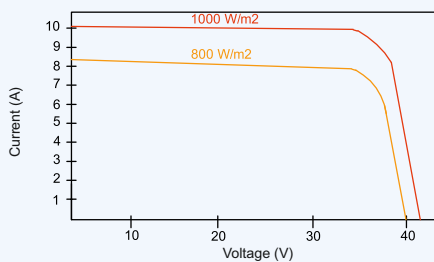


The data were measured under standard test conditions. It may vary depending on the ambient conditions.

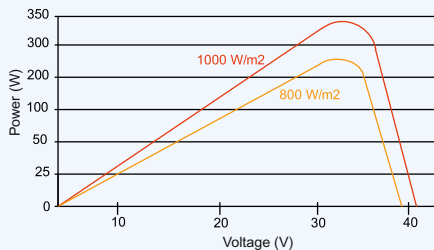
MODULE DIMENSIONS (mm)



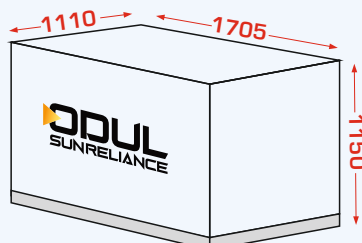
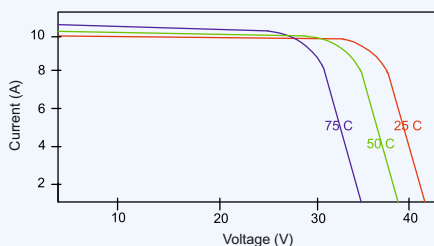
CURRENT VOLTAGE CURVE



POWER VOLTAGE CURVE



CURRENT VOLTAGE CURVE



ELECTRICAL PARAMETERS (STC)

	Unit	OSMp60-325W	OSMp60-330W	OSMp60-335W
Maximum Power	P _{maks} (Wp)	325	330	335
Positive Output Tolerance		0 ~ +5W		
Max. Power Voltage	V _{mpp} (V)	33,60	33,78	33,90
Max. Power Current	I _{mpp} (A)	9,68	9,77	9,9
Open Circuit Voltage	V _{oc} (V)	41,1	41,31	41,5
Short Circuit Voltage	I _{sc} (A)	10,2	10,31	10,52
Module Efficiency	η _m (%)	19,41	19,7	20,03

STC: 1000W/m² Irradiation / 25°C Cell Temperature / AM=1,5 / Measurement Accuracy ±%3 / 1m/s Wind Speed

ELECTRICAL PARAMETERS (NOTC)

	Unit	OSMp60-325W	OSMp60-330W	OSMp60-335W
Maximum Power	P _{maks} (Wp)	243	245	248
Max. Power Voltage	V _{mpp} (V)	31,8	31,97	32,05
Max. Power Current	I _{mpp} (A)	7,66	7,69	7,74
Open Circuit Voltage	V _{oc} (V)	38,1	39,17	39,3
Short Circuit Voltage	I _{sc} (A)	8,53	8,56	8,59

NOTC: 800W/m² Irradiation / 20°C Cell Temperature / AM=1,5 / Measurement Accuracy ±%3 / 1m/s Wind Speed

MECHANICAL COMPONENTS

Cell Type	Monocrystalline Perc Cell / 156.75 mm x 156.75 mm
Cell Amount	60 Cell (6x10)
Panel Size	1006 x 1665 x 35 mm
Weight	18,5 Kg
Glass	3.2 mm (0,125") Low Ironed High-Pass Tempered Glass
Back Surface	Multi Layered White Polymer Film
Frame	White Anodized Aluminium
Junction Box	IP 67 or IP 68 - 1500 VDC / 15A
Output Cables	IEC, UL approved (4 mm², 12 AWG) (PV Cable Type) , 1000mm
Connector	Compatible MC4 (IP67, IEC and UL approved)
Fire Resistance	Type 1, Type 2 - A Class
Impact Resistance	Decreased from "51,19 / 1300 mm, (1.18 lbs / 535g) Steel Ball Test

TEMPERATURE COEFFICIENTS

NOTC (Nominal Cell Working Temperature)	45°C (± 2°C)
Temperaure Coefficient (P _{max})	-0,40 %/°C
Temperaure Coefficient (V _{oc})	-0,3409 %/°C
Temperaure Coefficient (I _{sc})	+0,0447 %/°C

WORKING CONDITIONS

Working Temperature	-40~+85°C
Max. System Voltage	1500V DC (UL / IEC)
Max. Reverse Current	15A / 20A
Maximum Load	75 lbs ft (UL Standard) 5400 Pa (IEC Standard)

PACKAGING

Pallet Size: 1110x1705x1150 mm
Modules per Pallet: 30 Pieces
Total Weight: 580 Kg
Modules per 40 HC Container: 840 Pieces
Modules per 20 DC Container: 360 Pieces

WARRANTY

10 Years OSR Mechanical Warranty
25 Years Linear Performance Warranty



Over **%22,2** Cell
Efficiency



72 CELL MONOCRYSTALLINE MODULE

385W - 400W
OUTPUT POWER RANGE

OVER %20
PANEL EFFICIENCY

0~+5Wp
POSITIVE OUTPUT TOLERANCE

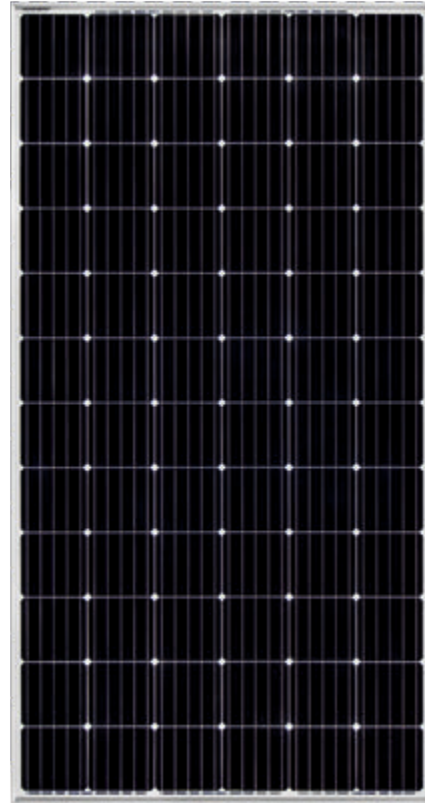
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QUALITY SYSTEMS AND CERTIFICATION

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ISO 9001: Quality management system
ISO 14001: Environmental Management System Certificate
OHSAS 18001: Occupational Health and Safety Management System



**Positive Output
Tolerance**



**Compatible with
International Standards**



**1500V Maximum
System Voltage**



**5400 Pa Snow Load
2400 Pa Wind Load
Resistance**



**10 Years Producer
Warranty**



**Over %20 Panel
Efficiency**



**100 % EL Double
EL Inspection**



**High Quality Junction
Box and Plugging System**

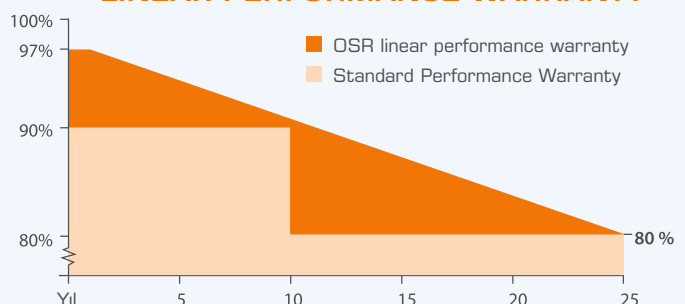


**Type 1, Type 2
A Class Fire Protection**



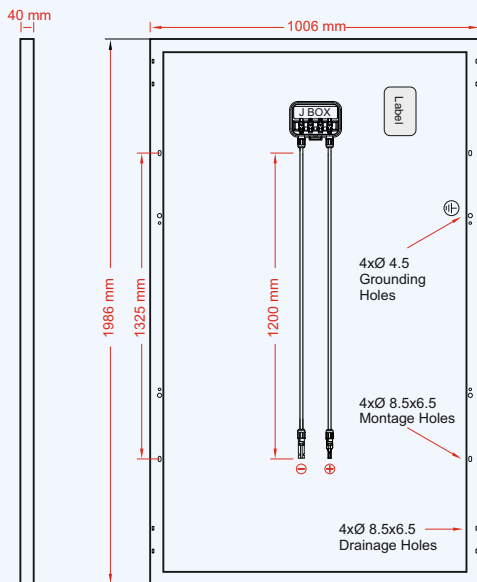
**25 Years Linear
Performance Warranty**

LINEAR PERFORMANCE WARRANTY

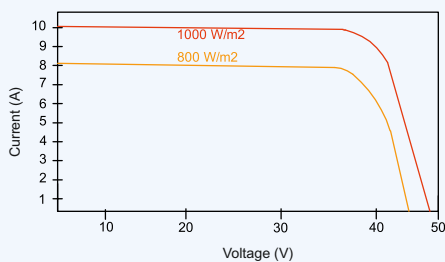


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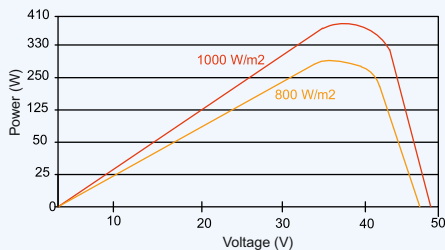
MODULE DIMENSIONS (mm)



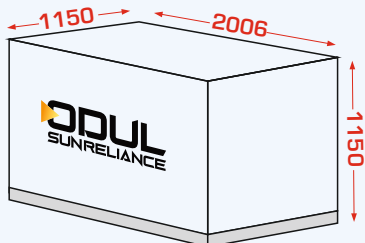
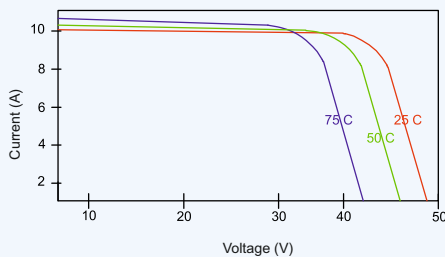
CURRENT VOLTAGE CURVE



POWER VOLTAGE CURVE



CURRENT VOLTAGE CURVE



ELECTRICAL PARAMETERS (STC)

	Unit	OSMp72-385W	OSMp72-390W	OSMp72-395W	OSMp72-400W
Maximum Power	P _{maks} (Wp)	385	390	395	400
Positive Output Tolerance		0 ~ +5W			
Max. Power Voltage	V _{mpp} (V)	40,8	41,1	40,48	40,51
Max. Power Current	I _{mpp} (A)	9,44	9,49	9,76	9,9
Open Circuit Voltage	V _{oc} (V)	49,1	49,3	49,64	49,95
Short Circuit Voltage	I _{sc} (A)	9,92	10,12	10,27	10,30
Module Efficiency	η _m (%)	19,27	19,52	19,77	20,07

STC: 1000W/m² Irradiation / 25°C Cell Temperature / AM=1,5 / Measurement Accuracy ±%3 / 1m/s Wind Speed

ELECTRICAL PARAMETERS (NOTC)

	Unit	OSMp72-385W	OSMp72-390W	OSMp72-395W	OSMp72-400W
Maximum Power	P _{maks} (Wp)	291	295	300	306
Max. Power Voltage	V _{mpp} (V)	38,9	39,1	39,5	39,9
Max. Power Current	I _{mpp} (A)	7,49	7,55	7,61	7,67
Open Circuit Voltage	V _{oc} (V)	47,8	48,1	48,6	49
Short Circuit Voltage	I _{sc} (A)	7,95	8,01	8,07	8,1

NOTC: 800W/m² Irradiation / 20°C Cell Temperature / AM=1,5 / Measurement Accuracy ±%3 / 1m/s Wind Speed

MECHANICAL COMPONENTS

Cell Type	Monocrystalline Perc Cell / 156.75 mm x 156.75 mm
Cell Amount	72 Cell (6x12)
Panel Size	1006 x 1986 x 40 mm
Weight	22,5 Kg
Glass	3.2 mm (0,125") Low Ironed High-Pass Tempered Glass
Back Surface	Multi Layered White Polymer Film
Frame	White Anodized Aluminium
Junction Box	IP 67 or IP 68 - 1500 VDC / 15A
Output Cables	IEC, UL approved (4 mm², 12 AWG) (PV Cable Type) , 1000mm
Connector	Compatible MC4 (IP67, IEC and UL approved)
Fire Resistance	Type 1, Type 2 - A Class
Impact Resistance	Decreased from "51,19 / 1300 mm, (1.18 lbs / 535g) Steel Ball Test

TEMPERATURE COEFFICIENTS

NOTC (Nominal Cell Working Temperature)	45°C (± 2°C)
Temperature Coefficient (P _{maks})	-0,40 %/°C
Temperature Coefficient (V _{oc})	-0,3409 %/°C
Temperature Coefficient (I _{sc})	+0,0447 %/°C

WORKING CONDITIONS

Working Temperature	-40~+85°C
Max. System Voltage	1500V DC (UL / IEC)
Max. Reverse Current	15A / 20A
Maximum Load	75 lbs ft (UL Standard) 5400 Pa (IEC Standard)

PACKAGING

Pallet Size: 1150x2006x1150 mm
Modules per Pallet: 28 Pieces
Total Weight: 660 Kg
Modules per 40 HC Container: 720 Pieces
Modules per 20 DC Container: 300 Pieces

WARRANTY

10 Years OSR Mechanical Warranty
25 Years Linear Performance Warranty



► **OSP 25**



► **OSP 50**



► **OSP 80**



► **OSP 165**



► **OSMp 185**



ELECTRICAL PARAMETERS (STC)

	Unit	OSP 25	OSP 55	OSP 80	OSP 165	OSMp 185
Maximum Power	Pmaks (Wp)	25	55	80	165	185
Max. Power Voltage	Vmpp (V)	18,68	18,7	18,73	18,78	19
Max. Power Current	Impp (A)	1,34	2,95	4,28	9,1	10,3
Open Circuit Voltage	Voc (V)	22,69	22,70	22,75	22,80	24
Short Circuit Voltage	Isc (A)	1,42	3,2	4,9	8,79	9,74
Module Efficiency	η_m (%)	14,8	14,27	14,81	16,42	18,41
Weight	Kg	2.1	4,5	7	8	8
Cell Amount	Piece	36	36	36	36	36
Panel Size	mm	480x350x25	688x560x25	785x688x35	1488x675x35	1488x675x35



Over **%21,9** Cell Efficiency

6 CELL
MONOCRYSTALLINE MODULE

32W
OUTPUT POWER RANGE

OVER **%19,8**
PANEL EFFICIENCY

0~+5Wp
POSITIVE OUTPUT TOLERANCE



Positive Output Tolerance



Over %19,8 Panel Efficiency



5400 Pa Snow Load
2400 Pa Wind Load Resistance



Compatible with International Standards



100 % EL Double EL Inspection



Type 1, Type 2
A Class Fire Protection



High Quality Junction Box and Plugging System



10 Years Producer Warranty



25 Years Linear Performance Warranty

ELECTRICAL PARAMETERS (STC)

	Unit	OSMp6-32W
Maximum Power	Pmaks (Wp)	32
Positive Output Tolerance	Watt	0 ~ +0,5W
Max. Power Voltage	Vmpp (V)	3,34
Max. Power Current	Imp (A)	9,59
Open Circuit Voltage	Voc (V)	4,1
Short Circuit Voltage	Isc (A)	10,15
Module Efficiency	η_m (%)	19,83

STC: 1000W/m² Irradiation / 25°C Cell Temperature / AM=1,5 / Measurement Accuracy $\pm$ %3 / 1m/s Wind Speed

ELECTRICAL PARAMETERS (NOTC)

	Unit	OSMp6-32W
Maximum Power	Pmaks (Wp)	23,9
Max. Power Voltage	Vmpp (V)	3,14
Max. Power Current	Imp (A)	7,62
Open Circuit Voltage	Voc (V)	3,78
Short Circuit Voltage	Isc (A)	8,45

NOTC: 800W/m² Irradiation / 20°C Cell Temperature / AM=1,5 / Measurement Accuracy $\pm$ %3 / 1m/s Wind Speed

MECHANICAL COMPONENTS

Cell Type	Monocrystalline Perc Cell / 156.75 mm x 156.75 mm
Cell Amount	6 Cell (2x3)
Panel Size	537 x 363 x 30 mm
Weight	3,3 Kg
Glass	3.2 mm (0,125")Low Ironed High-Pass Tempered Glass
Back Surface	Multi Layered White Polimer Film
Frame	Fireproof Composite Tile
Junction Box	IP 65 and above
Output Cables	IEC, UL approved (4 mm ² , 12 AWG) (PV Cable Type) , 300mm
Connector	Compatible MC4 (IP67, IEC and UL approved)
Fire Resistance	Type 1, Type 2 - A Class
Impact Resistance	Decreased from "51,19 / 1300 mm, (1.18 lbs / 535g) Steel Ball Test

TEMPERATURE COEFFICIENTS

NOTC (Nominal Cell Working Temperature)	45°C ($\pm$ 2°C)
Temperaure Coefficient (Pmax)	-0,40 %/°C
Temperaure Coefficient (Voc)	-0,3409 %/°C
Temperaure Coefficient (Isc)	+0,0447 %/°C

WORKING CONDITIONS

Working Temperature	-40~+85°C
Max. System Voltage	1000V DC (UL / IEC)
Max. Reverse Current	15A / 20A
Maximum Load	75 lbs ft (UL Standard) 5400 Pa (IEC Standard)

PACKAGING

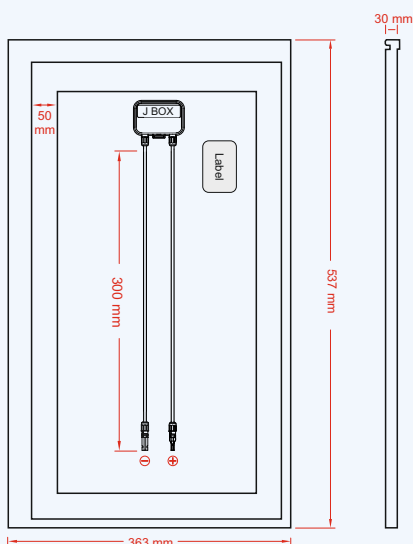
Pallet Size: 800x1200x1630 mm
Modules per Pallet: 160 Pieces
Total Weight: 580 Kg
Modules per 40 HC Container: 3680 Pieces
Modules per 20 DC Container: 1760 Pieces

WARRANTY

10 Years OSR Mechanical Warranty
25 Years Linear Performance Warranty



MODULE DIMENSIONS (mm)





► KAYSERİ - TALAS



► KONYA - BOZKIR



► KÜTAHYA - TAVŞANLI



► KASTAMONU - ŞENPAZAR



► BURSA - SIRIL

ODUL
SUNRELIANCE

REFERENCES



► AFYON - İHSANİYE



► AFYON - DİNAR



► NİĞDE - BOR



► BURSA - KARACABEY



► BALIKESİR - DURSUNBEY



► AFYON - KAYIHAN



► NEVŞEHİR - GÜLŞEHİR



► KAYSERİ - MELİKGAZI



► KAHRAMANMARAŞ - ILICA



► AFYON - KAYIHAN



► MERSİN - TARSUS OSB



► KAYSERİ - TALAS



► YOZGAT - SARIKAYA



► OSMANİYE



► OSMANİYE



► SAMSUN - KAVAK



► MERSİN - TARSUS OSB



► NEVŞEHİR - DERİNKUYU



► GAZİANTEP



► GAZİANTEP - H.K.Ü. 1



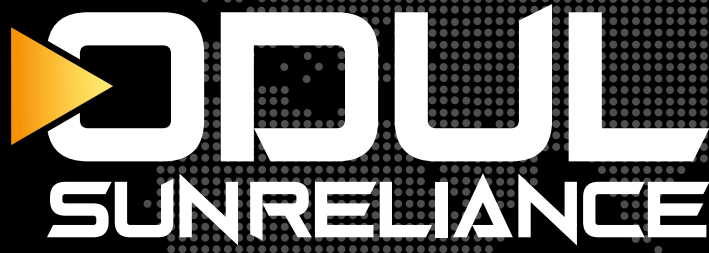
► KAYSERİ - MELİKGAZİ



► KAYSERİ - TALAS



► GAZİANTEP - H.K.Ü. 2



ODUL SUNRELIANCE

FACTORY

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