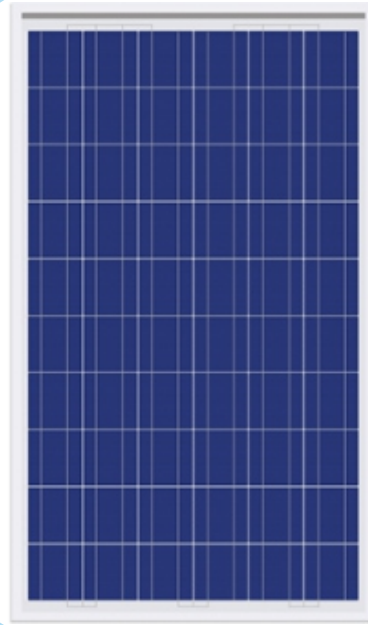




sunevasolar
THE ALTERNATIVE

Suneva Olive Series



Features

High module power and excellent power generation performance under low light.

Certified to withstand the most challenging environmental conditions with latest BIS standard.

Module coating resistant to sand, acid and alkali
2400 pa wind load
5400 pa snow load

Positive power tolerance of up to +3% extra output.

Excellent module efficiency up to 17.52% in Polycrystalline achieved through advanced manufacturing capabilities and technology.

ARC Coated and high transmission glass features that directs more light on module resulting higher energy output.

Industry-leading power warranty.

Multi electroluminescence testing to ensure defect free modules.

High PID resistant, advance technology & qualified material leads to high resistant to PID.

CERTIFICATIONS



BIS TESTED AS PER MNRE GUIDELINES



Reliable Quality

- ◆ Rigorous quality control meeting the highest international standards
- ◆ 25 years output warranty.
90% for 10 years
80% for 25 years
- ◆ careful selection of highest quality raw materials from reputed suppliers from around the world.

Application

- On-grid large scale utility systems
- On-grid rooftop residential and commercial systems
- Off-grid residential systems

72 SERIES POLYCRYSTALLINE

TECHNICAL DATA

Electrical Parameter at STC*

Electrical Parameter	325	330	335
Maximum Power Pmax(Wp)	325	330	335
Power Tolerance	0 ~ +5 Wp		
Module Efficiency (%)	16.70	16.96	17.22
Maximum Voltage Vmp (V)	38.42	38.64	38.86
Maximum Current Imp (A)	8.45	8.54	8.63
Open Circuit Voltage Voc (V)	45.79	45.93	46.07
Short Circuit Current Isc (A)	9.01	9.09	9.17

*STC=1000 W/m² irradiance, 25°C module temperature, AM 1.5 spectrum

Electrical Parameter	233.89	237.49	241.08
Maximum Power Pmax(Wp)	233.89	237.49	241.08
Maximum Voltage Vmp (V)	34.38	34.54	34.70
Maximum Current Imp (A)	6.80	6.87	6.95
Open Circuit Voltage Voc (V)	43.08	43.21	43.34
Short Circuit Current Isc (A)	7.25	7.32	7.38

*STC=800 W/m² irradiance, 20°C module temperature, AM 1.5 spectrum

Temperature coefficients (TC) & Permissible Operating Conditions

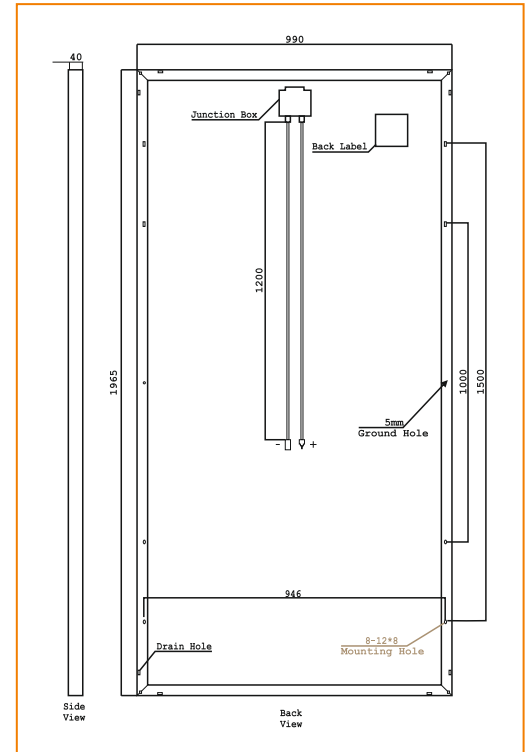
Tc of Open Circuit Voltage (β)	-0.282 % /°C
Tc of Short Circuit Current (α)	0.0239 % /°C
Tc of Power (γ)	-0.3826 % /°C
Maximum System Voltage	1000 V DC
NOCT	45°C ± 2°C
Temperature Range	-40°C to +85°C

Mechanical Specification

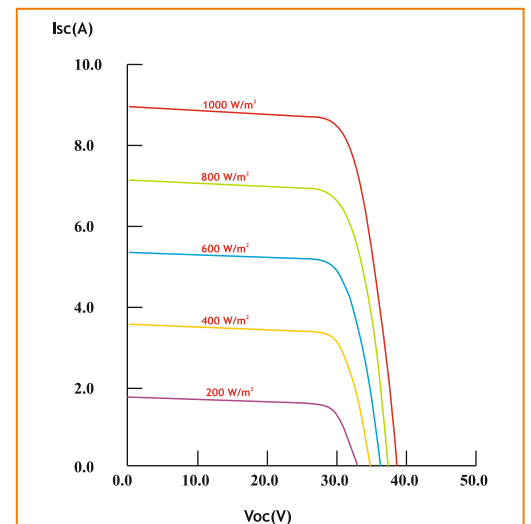
Cells	72 Pcs poly-crystalline silicon, 156.75 mm x 156.75 mm
Cell encapsulation	Ultra-PID Resistant & Weather Stable EVA (Ethylene-Vinyl-Acetate)
Back Sheet	Fluoro based UV & Weather Stable White Backsheet
Frame	Silver Anodised Aluminium Alloy (Screwless)
Weight	21 Kg
Junction Box	IP 68, 4-rail, 3 diodes JB
Glass	3.2 mm, High transmission, ARC Glass
Cable & Connectors	Cable 1200 mm length, 4 mm ² , MC4 compatible Connectors
Application Class	Class A
Electrical Safety	Class II
Fire Safety	Class C (Type 1)
Mechanical Load Test	5400 Pa-front ; 2400 Pa-back
Maximum Series Fuse Rating	15 A
Length x Width x Height	1965mm x 990mm x 40mm/35mm (Optional 42mm)

Guarantees and Certifications

Product Warranty**	10 Years
Performance Warranty**	Guaranteed Output power : 90% for 10 years 80% for 25 years
Approvals & Certificates	IS 14286:2010/IEC 61215:2005, IS 61730-1:2004 / IEC 61730-1:2005, IS 61730-2:2004 / IEC 61730-2:2005 ISO 9001:2015/ISO 14001:2015/ OHSAS 18001:2007 IEC 62804, IEC 61853, IE 61701



All dimension are in mm



** Refer to Suneva's warranty document for terms and conditions.

Disclaimer : specifications included in the datasheet are subject to change without prior notice owing to conditions innovation on the product Development and R&D Activities. SUNEVA reserves the right to make any adjustments to the information described here, Dataset contained in this specification do not form a representative of a single module data.

Packing Information

Container	40' HC
Pallets/Container	24
Pieces/Container	700

Suneva Solar

3M-213, 3rd Floor, Govind Narayani Tower, East of NGEF, Service Road, Kasturi Nagar, Outer Ring Road, Bangalore - 560043.
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60 SERIES POLYCRYSTALLINE

TECHNICAL DATA

Electrical Parameter at STC*

	260	265	270	275	280
Maximum Power Pmax(Wp)	260	265	270	275	280
Power Tolerance Module	0 ~ +5 Wp				
Efficiency (%)	15.96	16.27	16.57	16.86	17.19
Maximum Voltage Vmp (V)	31.4	31.59	31.88	32.2	32.55
Maximum Current Imp (A)	8.28	8.39	8.47	8.54	8.61
Open Circuit Voltage Voc (V)	37.8	37.8	38.16	38.22	38.28
Short Circuit Current Isc (A)	8.90	8.96	9.03	9.09	9.15

*STC=1000 W/m² irradiance, 25°C module temperature, AM 1.5 spectrum

Electrical Parameter at NOCT#

	187.11	190.71	194.31	197.90	201.50
Maximum Power Pmax(Wp)	187.11	190.71	194.31	197.90	201.50
Maximum Voltage Vmp (V)	28.07	28.24	28.50	28.79	29.07
Maximum Current Imp (A)	6.67	6.75	6.82	6.87	6.93
Open Circuit Voltage Voc (V)	35.56	35.56	35.90	35.96	36.01
Short Circuit Current Isc (A)	7.16	7.21	7.27	7.32	7.37

#STC=800 W/m² irradiance, 20°C module temperature, AM 1.5 spectrum

Temperature coefficients (TC) & Permissible Operating Conditions

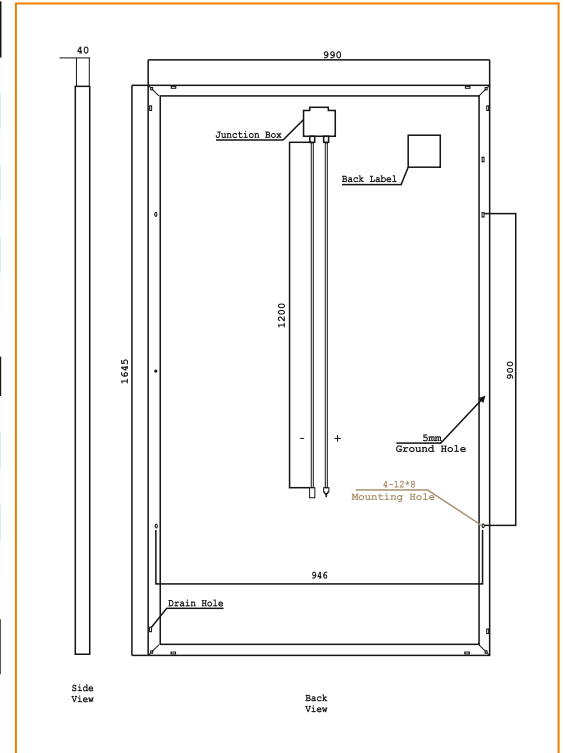
Tc of Open Circuit Voltage (β)	-0.282 % /°C
Tc of Short Circuit Current (α)	0.0239 % /°C
Tc of Power (γ)	-0.3826 % /°C
Maximum System Voltage	1000 V DC
NOCT	45°C ± 2°C
Temperature Range	-40°C to +85°C

Mechanical Specification

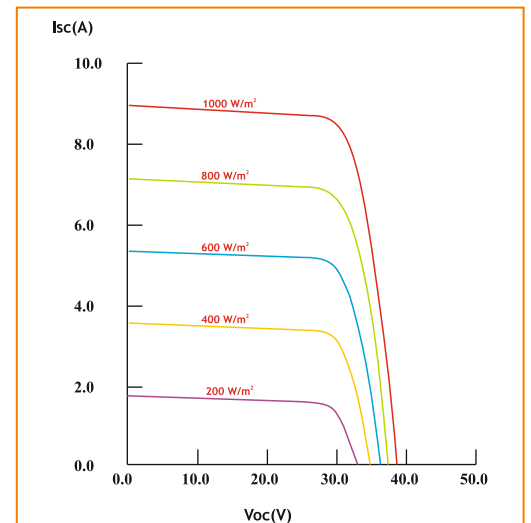
Cells	60 Pcs poly-crystalline silicon, 156.75 mm x 156.75 mm
Cell encapsulation	Ultra-PID Resistant & Weather Stable EVA (Ethylene-Vinyl-Acetate)
Back Sheet	Fluoro based UV & Weather Stable White Backsheet
Frame	Silver Anodised Aluminium Alloy (Screwless)
Weight	18.2 Kg
Junction Box	IP 68, 4-rail, 3 diodes JB
Glass	3.2 mm, High transmission, ARC Glass
Cable & Connectors	Cable 1200 mm length, 4 mm ² , MC4 compatible Connectors
Application Class	Class A
Electrical Safety	Class II
Fire Safety	Class C (Type 1)
Mechanical Load Test	5400 Pa-front ; 2400 Pa-back
Maximum Series Fuse Rating	15 A
Length x Width x Height	1645mm x 990mm x 40mm/35mm

Guarantees and Certifications

Product Warranty**	10 Years
Performance Warranty**	Guaranteed Output power : 90% for 10 years 80% for 25 years
Approvals & Certificates	IS 14286:2010/IEC 61215:2005, IS 61730-1:2004 / IEC 61730-1:2005, IS 61730-2:2004 / IEC 61730-2:2005 ISO 9001:2015/ISO 14001:2015/ OHSAS 18001:2007 IEC 62804, IEC 61853, IE 61701



All dimension are in mm



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Container	40' HC
Pallets/Container	28
Pieces/Container	812

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TECHNICAL DATA 75W TO 210W

Performance Under Standard Test Conditions (STC)

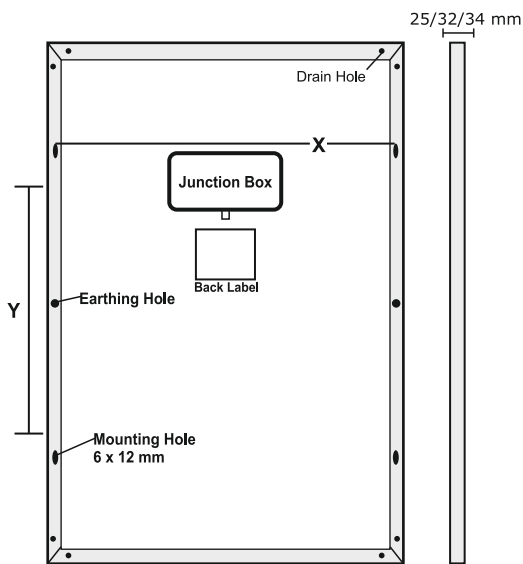
Nominal Maximum Power (Pmax)	75w	80w	105w	125w	160w	165w	210w
Module Eff (%)	15.23	16.25	15.86	16.51	16.15	16.66	15.95
Optimum Operating Voltage (Vmp)	18.15	19.09	18.98	19.53	19.07	19.32	25.27
Optimum Operating Current (Imp)	4.13	4.19	5.53	6.4	8.39	8.54	8.3
Open Circuit Voltage (Voc)	22.68	22.82	22.71	22.96	22.86	22.96	30.28
Short Circuit Current (Isc)	4.44	4.47	5.93	6.81	8.96	9.09	8.91

Mechanical Specification

Dimensions (L x W x H in mm)	735mm X 670mm X 34mm (Optional 30mm)	995mm X 665mm X 34mm (Optional 30mm)	1135mm X 667mm X 34mm (Optional 30mm)	1485mm X 665mm X 34mm (Optional 30mm)	1330mm X 990mm X 36mm
Weight(kg)	5.5 kgs	7.6 kgs	8.4 kgs	11.1 kgs	14.5 kgs
No of Cell	36	36	36	36	48
Cell Arrangement	9x4	9x4	9x4	9x4	8x6
Front Cover (Tempered Glass)	Low Iron Tempered Solar Glass	Low Iron Tempered Solar Glass	Low Iron Tempered Solar Glass	Low Iron Tempered Solar Glass	Low Iron Tempered Solar Glass
Encapsulate	EVA	EVA	EVA	EVA	EVA
Back Cover	Backsheet	Backsheet	Backsheet	Backsheet	Backsheet
Junction Box with Bypass diode	IP 68 Certified 3-rail, 2 diodes junction box	IP 68 Certified 3-rail, 2 diodes junction box	IP 68 Certified 3-rail, 2 diodes junction box	IP 68 Certified 3-rail, 2 diodes junction box	IP 68 Certified 3-rail, 2 diodes junction box
Mounting Holes Pitch (Y)-mm	400	500	600	900	800
Mounting Holes Pitch (X)-mm	640	635	637	635	946

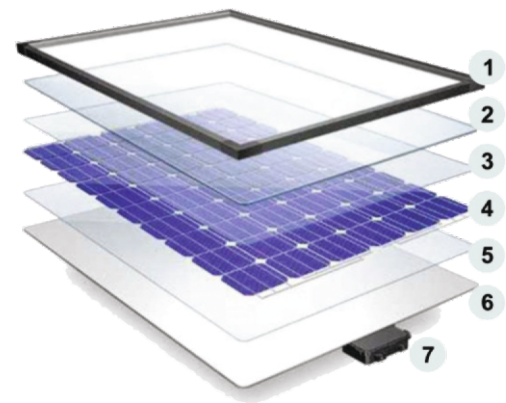
BACK VIEW

SIDE VIEW



MAXIMUM OPERATING CONDITIONS

- 1) Aluminium Frame
- 2) Solar Tempered Glass
- 3) Encapsulant
- 4) Solar Cell String
- 5) Encapsulant
- 6) Backsheet
- 7) Junction box



Maximum Operating Conditions

Operating Temperature:	-40°C to +85°C
Maximum System Voltage:	600V / 1000V
Maximum Series Fuse Rating:	12A/15A

** Refer to Suneva's warranty document for terms and conditions.

Guarantees and Certifications

Product Warranty**	5 Years / 10 Years
Performance Warranty**	Guaranteed Output power : 90% for 10 years 80% for 25 years
Approvals & Certificates	IS 14286:2010/IEC 61215:2005, IS 61730-1:2004 / IEC 61730-1:2005, IS 61730-2:2004 / IEC 61730-2:2005 ISO 9001:2015/ISO 14001:2015/ OHSAS 18001:2007 IEC 62804, IEC 61853, IE 61701

All Dimensions are in mm with +/-1% tolerance.

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