



sunevasolar
THE ALTERNATIVE

Suneva Elm Series



Features

Advanced module technology delivers superior module efficiency,

- i. perc technology
- ii. Smart soldering
- iii. 9bb cells

Excellent outdoor power generation performance

High module quality ensures long term reliability

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

Industry-leading power warranty.

Multi electroluminescence testing to ensure defect free modules.

High module power and excellent power generation performance under low light

Excellent module efficiency up to 21% in Monocrystalline achieved through advanced manufacturing capabilities and technology.

CERTIFICATIONS



BIS TESTED AS PER MNRE GUIDELINES



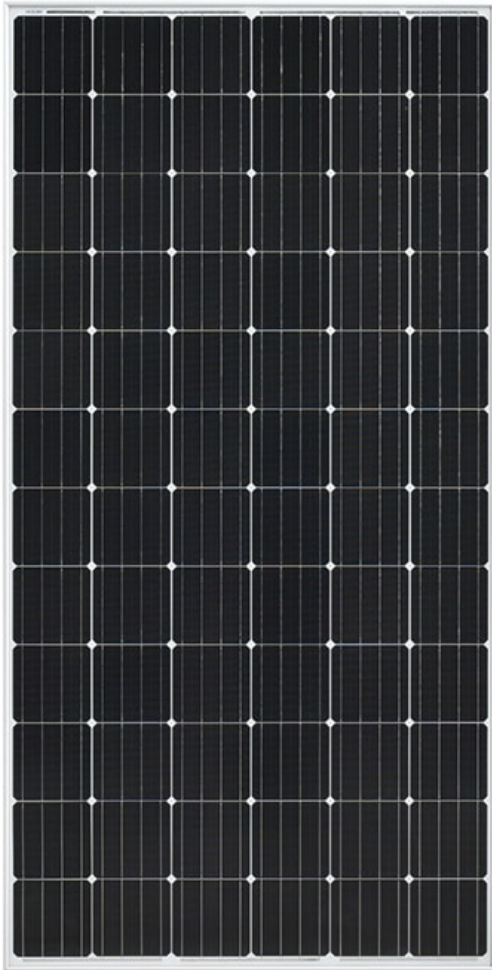
Reliable Quality

- ◆ 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 MONOCRYSTALLINE



166x83 mm 72 Series

WATT	430	435	440	445
Eff.	19.59	19.81	20.04	20.27
VOC	48.92	49.03	49.23	49.41
ISC	11.24	11.29	11.36	11.42
VMP	40.62	40.87	41.13	41.39
IMP	10.59	10.64	10.71	10.75

NOCT

WATT	327.81	331.29	335.77	343.83
Eff.	14.93	15.09	15.29	15.66
VOC	46.16	46.26	46.46	46.78
ISC	9.08	9.12	9.17	9.30
VMP	38.33	38.56	38.81	39.19
IMP	8.55	8.59	8.65	8.77

Electrical Parameter at NOCT NOCT=800 W/m² irradiance 20°C ambient temperature, AM 1.5 spectrum

WATT	316.54	319.50	322.95	327.05
Eff.	14.69	14.83	14.99	15.18
VOC	44.68	44.81	45.08	45.35
ISC	8.74	8.76	8.80	8.84
VMP	38.30	38.43	38.70	38.96
IMP	8.27	8.31	8.35	8.39

Electrical Parameter at STC #STC=1000 W/m² irradiance 25°C module temperature, AM 1.5 spectrum

WATT	425	430	435	440
Eff.	19.72	19.95	20.17	20.42
VOC	48.38	48.53	48.82	49.10
ISC	18.85	10.88	10.94	10.99
VMP	41.47	41.62	41.90	42.19
IMP	10.27	10.31	10.37	10.43

Temperature coefficients (TC) & Permissible Operating Conditions

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

Mechanical Specification

Cells	72 Pcs Mono-crystalline silicon, 166mm x x166mm
Cell encapsulation	Ultra-PID Resistant & Weather Stable EVA
Back Sheet	(Ethylene-Vinyl-Acetate) Fluoro based UV & Weather Stable White Backsheet
Frame	Silver Anodised Aluminium Alloy (Screwless)
Weight	25Kg
Junction Box	IP 68, 4-rail, 3diodes JB
Glass	3.2 mm, High transmission, ARC Glass
Cable & Connectors	Cable 1200 mm length, 4mm 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	20 A
Length x Width x Height	2075mm x 1038mm x 40mm/35mm

72 SERIES MONOCRYSTALLINE

TECHNICAL DATA

Electrical Parameter at STC*

Parameter	375	380	390
Maximum Power Pmax(Wp)	375	380	390
Power Tolerance	0 ~ +5 Wp		
Module Efficiency (%)	19.28	19.54	20.05
Maximum Voltage Vmp (V)	40.11	40.26	40.38
Maximum Current Imp (A)	9.35	9.44	9.69
Open Circuit Voltage Voc (V)	47.19	47.34	48.97
Short Circuit Current Isc (A)	9.81	9.84	10.17

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

Electrical Parameter at NOCT#

Maximum Power Pmax(Wp)	269.87	273.47
Maximum Voltage Vmp (V)	35.85	35.99
Maximum Current Imp (A)	7.53	7.60
Open Circuit Voltage Voc (V)	44.40	44.54
Short Circuit Current Isc (A)	7.90	7.92

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

Temperature coefficients (TC) & Permissible Operating Conditions

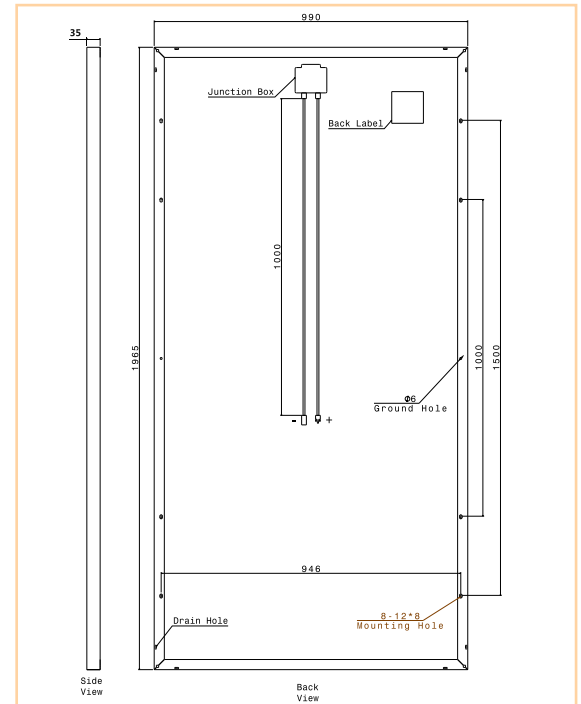
Tc of Open Circuit Voltage (β)	-0.282 % /°C
Tc of Short Circuit Current (α)	0.0239 % /°C
Tc of Power (γ)	-0.3826 % /°C
Maximum System Voltage	1000 V DC
NOCT	45°C ± 2°C
Temperature Range	-40°C to +85°C

Mechanical Specification

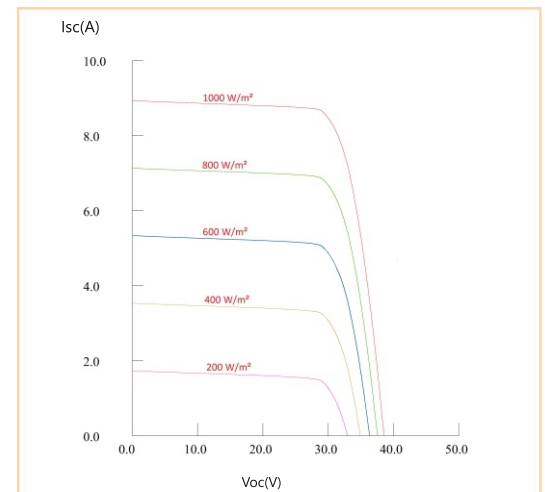
Cells	72 Pcs mono-crystalline silicon, 156.75 mm x 156.75 mm PERC
Cell encapsulation	Ultra-PID Resistant & Weather Stable EVA (Ethylene-Vinyl-Acetate)
Back Sheet	Fluoro based UV & Weather Stable White Backsheet
Frame	Silver Anodised Aluminium Alloy (Screwless)
Weight	21 Kg
Junction Box	IP 67, 4-rail, 3 diodes JB
Glass	3.2 mm, High transmission, ARC Glass
Cable & Connectors	Cable 1000 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 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	ISO 9001:2015/ISO 14001:2015/ OHSAS 18001:2007



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

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