



VIR-JA EXIM INTERNATIONAL

SOLAR POWER



KEY FEATURES



5 Busbar solar cell adopts new technology to improve the efficiency of modules, offers a better aesthetic appearance, making it perfect for rooftop installation.



IP68 junction box for long-term weather endurance.



Heavy snow load up to 5400 Pa.
Wind load upto 2400Pa.



Our high-transmission glass features a unique anti-reflective coating that directs more light on the solar cells, resulting in a higher energy yield.



First choice for millions of banks and investors, this size is well-suited for almost all PV applications.



Module efficiency up to 17.00% achieved through advanced cell technology and manufacturing capabilities.



Positive tolerance of up to 3% delivers higher output reliability.



100% In-House automatic manufacturing.



Certified for PID free modules.



Advanced glass and solar cell surface texturing allow for excellent performance in low-light environments.

ISO9001:2015, ISO 14001:2004, OHSAS 18001:2007 certified company
IEC61215, IEC61730, IEC62804(PID), IEC61701, IEC62716, IEC61853 certified products



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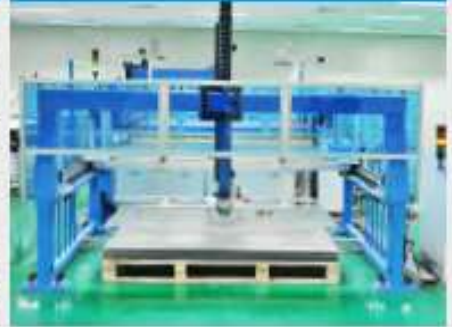
STRINGER WITH AUTO-LAYUP



AUTOMATIC DOUBLE STAGE LAMINATOR



AUTOMATIC GLASS LOADING



AUTOMATIC EVA & BACKSHEET LOADING



FULLY AUTOMATIC CONVEYER



AUTOMATIC SUN-SIMULATOR



MANUFACTURING FACILITY

150 MW Fully Automatic Line

- PV module range from 5 Wp to 335 Wp
- Facility spread over 80,000 sq ft area
- CB Report for IEC 61215, 61730 1-2
- ISO 9001-2015, ISO 14001 & OHSAS 18001 certified company
- MNRE & STQC Approval

QUALITY ASSURANCE

- High quality control standards
- High quality Component from International Supplier
- Enhanced reliability through use of distinctive encapsulant and back sheet
- PID free modules (85°C / 85RH for 288hrs)
- Optimized edge clearance for high quality rugged design
- 2x100 % Electroluminescence checking to ensure defect free modules.
- 100% In-line hi-pot testing (H.V+GB+IR)
- High FF for improved energy conversion efficiency
- Torsion and corrosion resistant with anodized aluminum frame
- Unique design of back-sheet for high resistance to moisture ingress

APPLICATION

- Megawatt Installation
 - Solar Farms : 1MW to 50MW
- Rooftop Installation
 - Manufacturing Unit
 - Commercial office
 - Housing / Domestic power packs
- Emergency Backup
- Rural Power
- Solar Pumping applications
- Telecommunication
 - Cell Tower
- On-grid large scale utility systems

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SOLAR MODULE

POLY SPECIFICATION

Maxpower (W)	No. of Cell	Dimension (mm)	Module Efficiency	Glass Size (mm)	Weight (kg)	Max Current (Imax) (A)	Max Voltage (Vmax) (V)	Short Circuit (Isc) Current(A)	Open Circuit (Voc) Voltage(V)
335W	72	1961 x 991 x 35	17.23%	1955 X985 X 3.2	21.50	8.71	38.47	9.13	46.08
330W	72	1961 x 991 x 35	16.98%	1955 X985 X 3.2	21.50	8.66	38.11	9.1	45.98
325W	72	1961 x 991 x 35	16.72%	1955 X985 X 3.2	21.50	8.59	37.88	9.06	45.86
320W	72	1961 x 991 x 35	16.46%	1955 X985 X 3.2	21.50	8.51	37.70	9.01	45.74
315W	72	1961 x 991 x 35	16.20%	1955 X985 X 3.2	21.50	8.42	37.51	8.94	45.55
310W	72	1961 x 991 x 35	15.95%	1955 X985 X 3.2	21.50	8.33	37.32	8.83	45.36
300W	72	1961 x 991 x 35	15.43%	1955 X985 X 3.2	21.50	8.11	37.02	8.59	45.07
280W	60	1641 x 991 x 35	17.21%	1635 X985 X 3.2	18.30	8.63	32.46	9.08	38.41
275W	60	1641 x 991 x 35	16.91%	1635 X985 X 3.2	18.30	8.57	32.20	9.03	38.19
270W	60	1641 x 991 x 35	16.60%	1635 X985 X 3.2	18.30	8.50	31.85	8.98	37.92
265W	60	1641 x 991 x 35	16.29%	1635 X985 X 3.2	18.30	8.45	31.44	8.92	37.76
260W	60	1641 x 991 x 35	16.00%	1635 X985 X 3.2	18.30	8.41	31.01	8.88	37.42
255w	60	1641 x 991 x 35	15.68%	1635 X985 X 3.2	18.30	8.38	30.45	8.85	36.98
250w	60	1641 x 991 x 35	15.37%	1635 X985 X 3.2	18.30	8.32	30.15	8.79	36.57
250w	72	1641 x 991 x 35	15.37%	1635 X985 X 3.2	18.30	6.67	37.53	7.05	45.57
225W	72	1386 x 991 x 35	16.38%	1381 X985 X 3.2	16.50	6.02	37.48	6.36	45.51
200W	72	1386 x 991 x 35	14.56%	1381 X985 X 3.2	15.50	5.36	37.35	5.67	45.37
180W	72	1386 x 991 x 35	13.10%	1381 X985 X 3.2	15.50	4.84	37.23	5.12	45.26
150W	36	1481 x 661 x 35	15.32%	1475 X655 X 3.2	11.50	8.13	18.55	8.59	22.54
110W	36	1091 x 661 x 30	15.25%	1085 X655 X 3.2	8.10	5.94	18.53	6.26	22.52
100W	36	1091 x 661 x 30	13.86%	1085 X655 X 3.2	8.10	5.44	18.49	5.72	22.49
80W	36	806 x 661 x 30	15.01%	800 X 655 X 3.2	6.20	4.34	18.46	4.58	22.47
75W	36	806 x 661 x 30	14.07%	800 X 655 X 3.2	6.20	4.08	18.45	4.32	22.45
60W	36	666 x 661 x 30	13.62%	660 X 655 X 3.2	5.20	3.26	18.43	3.44	22.42
50W	36	576 x 661 x 30	13.13%	570 X 655 X 3.2	4.60	2.72	18.42	2.87	22.40
40W	36	476 x 661 x 30	12.71%	470 X 655 X 3.2	3.90	2.20	18.39	2.33	22.36
37W	36	476 x 661 x 30	11.75%	470 X 655 X 3.2	3.90	2.03	18.37	2.15	22.33
30W	36	476 x 661 x 30	9.53%	470 X 655 X 3.2	3.85	1.66	18.34	1.76	22.28
20W	36	486 x 351 x 17	11.72%	480 x 345 x 3.2	2.00	1.10	18.32	1.17	22.26
10W	36	286 x 351 x 17	9.96%	280 x 345 x 3.2	1.50	0.55	18.30	0.58	22.23
05W	18	291 x 186 x 17	9.23%	295 x 190 x 3.2	0.80	0.54	9.26	0.57	11.25

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POLYCRYSTALLINE SOLAR PV MODULE • 60 CELLS • 260 - 275 WATT

Electrical Parameters at Standard Test Conditions STC & NOCT

Model Type	LE18P260		LE18P265		LE18P270		LE18P275	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Power Output P _{max} (W)	260	193.18	265	196.90	270	200.61	275	204.33
Voltage at P _{max} V _{mpp} (V)	31.01	28.62	31.44	29.02	31.85	29.40	32.2	29.72
Current at P _{max} I _{mpp} (I)	8.41	6.75	8.45	6.79	8.5	6.82	8.57	6.87
Open-circuit Voltage V _{OC} (V)	37.42	35.10	37.76	35.42	37.92	35.57	38.19	35.82
Short-circuit Current I _{SC} (I)	8.88	7.15	8.92	7.18	8.98	7.23	9.03	7.27
Module Efficiency % (%)	16.00		16.29		16.60		16.91	

STC : 1000 W/m² irradiance, 25°C cell temperature, AM 1.5g spectrum according to IEC 60904-3.
NOCT : 800 W/m² irradiance, ambient temperature 20°C, wind speed 1 m/sec

Thermal Characteristics

Nominal Operating Cell Temperature	NOCT	°C	45°C ± 2°C
Temperature Coefficient of P _{max}	γ	%/°C	-0.361
Temperature Coefficient of V _{OC}	β	%/°C	-0.304
Temperature Coefficient of I _{SC}	α	%/°C	0.05

Operating Conditions

Max. System Voltage	1500Vdc
Max. Series Fuse Rating	15A
Limiting Reverse Current	25A
Operating Temperature Range	-40°C to +85°C
Max. Static Load, Front	5400Pa
Max. Static Load, Back (e.g., wind)	2400Pa
Max. Hailstone Impact (diameter / velocity)	25mm / 23.3 m/s

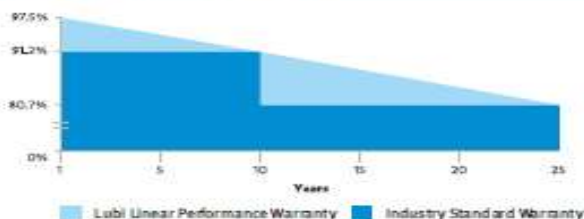
Mechanical Data

Dimensions (L / W / H)	1641mm / 991mm / 35mm
Weight	18.3kg
Front Cover (material / thickness)	AR coated high transmission low iron tempered glass / 3.2mm
Cell (qty. / material / dim./no. of busbars)	60 / Monocrystalline Silicon / 156.75mm x 156.75mm / 5BB
Encapsulate (material)	Ethylene vinyl acetate (EVA)
Backsheet	UV Protected
Frame (material / color)	Anodized aluminum alloy / silver
Junction Box (protection degree)	IP68, 3 bypass diodes
Cable (length / cross-sectional area)	1200mm / 4mm ²
Plug Connector (type / protection degree)	MC4 / IP68

Packaging Specifications

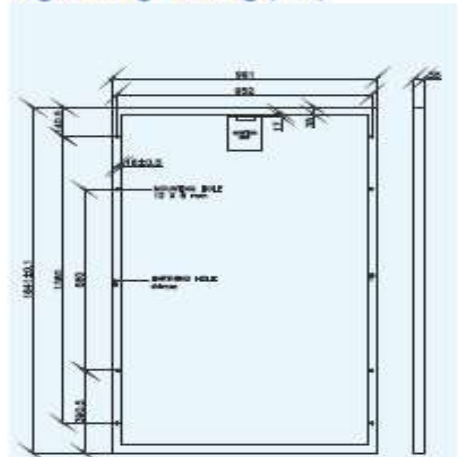
Number of Modules Per Pallet	30
Number of Pallets per 40' Container	28
Packaging Box Dimensions (L / W / H)	1685mm / 1115mm / 1150mm
Box Weight	600kg

Linear Performance Warranty

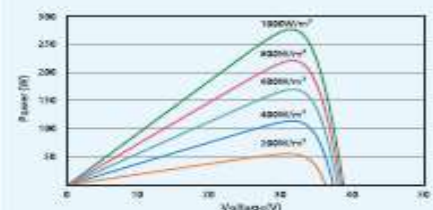
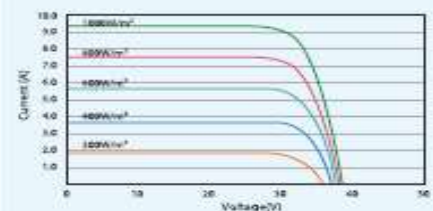


- 90% of the specified minimum output of the module for a 10 years period
- 10-year product warranty
- 80% of the specified minimum output of the module for a 25 years period
- 25-year linear performance warranty

Engineering Drawing (mm)



Electrical Performance



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VIR-JA EXIM INTERNATIONAL

POLYCRYSTALLINE SOLAR PV MODULE • 72 CELLS • 320 - 335 WATT

Electrical Parameters at Standard Test Conditions STC & NOCT

Model Type	LE24P320		LE24P325		LE24P330		LE24P335	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Power Output P _{max} (W)	320	237.76	325	241.48	330	245.19	335	248.91
Voltage at P _{max} V _{mpp} (V)	37.7	34.80	37.88	34.96	38.11	35.18	38.47	35.51
Current at P _{max} I _{mpp} (I)	8.51	6.83	8.59	6.91	8.66	6.97	8.71	7.01
Open-circuit Voltage V _{OC} (V)	45.74	42.90	45.86	43.02	45.98	43.13	46.08	43.22
Short-circuit Current I _{SC} (I)	9.01	7.25	9.06	7.29	9.1	7.33	9.13	7.35
Module Efficiency % (%)	16.46		16.72		16.98		17.23	

STC : 1000 W/m² irradiance, 25°C cell temperature, AM 1.5g spectrum according to EN 60904-3.
NOCT : 800 W/m² irradiance, ambient temperature 20°C, wind speed 1 m/sec

Thermal Characteristics

Nominal Operating Cell Temperature	NOCT	°C	45°C ± 2°C
Temperature Coefficient of P _{max}	γ	%/°C	-0.361
Temperature Coefficient of V _{OC}	β	%/°C	-0.304
Temperature Coefficient of I _{SC}	α	%/°C	0.05

Operating Conditions

Max. System Voltage	1500Vdc
Max. Series Fuse Rating	15A
Limiting Reverse Current	25A
Operating Temperature Range	-40°C to +85°C
Max. Static Load, Front	5400Pa
Max. Static Load, Back (e.g., wind)	2400Pa
Max. Hailstone Impact (diameter / velocity)	25mm / 23.3 m/s

Mechanical Data

Dimensions (L / W / H)	1961mm / 991mm / 35mm
Weight	21.5kg
Front Cover (material / thickness)	AR coated high transmission low iron tempered glass / 3.2 mm
Cell (qty. / material / dim./no. of busbars)	72 / Monocrystalline silicon / 156.75mm x 156.75mm / 5BB
Encapsulate (material)	Ethylene Vinyl acetate (EVA)
Backsheet	UV Protected
Frame (material / color)	Anodized aluminum alloy / silver
Junction Box (protection degree)	IP68, 3 bypass diodes
Cable (length / cross-sectional area)	1200mm / 4mm ²
Plug Connector (type / protection degree)	MCA / IP68

Packaging Specifications

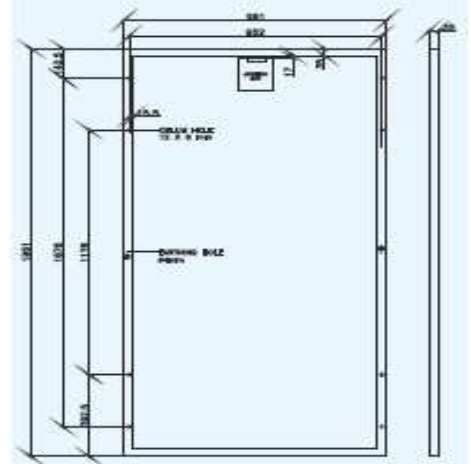
Number of Modules Per Pallet	30
Number of Pallets per 40' Container	24
Packaging Box Dimensions (L / W / H)	2005mm / 1115mm / 1150mm
Box Weight	700kg

LINEAR PERFORMANCE WARRANTY

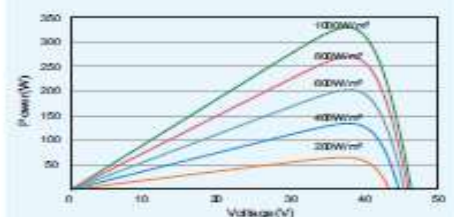
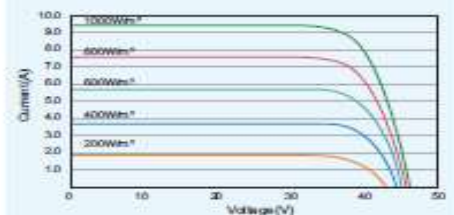


- 90% of the specified minimum output of the module for a 10 years period
- 10-year product warranty
- 80% of the specified minimum output of the module for a 25 years period
- 25-year linear performance warranty

Engineering Drawing (mm)



Electrical Performance



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Module Capacity	WT 36P30	WT 36P40	WT 36P50	WT 36P60	WT 36P75
Module Size(mm)	466 x 666 x 35	466 x 666 x 35	546 x 666 x 35	546 x 666 x 35	866 x 666 x 35
Peak Power(Pmax)	30.0	40.0	50.0	60.0	75
Tolerance on Pmax	± 3%	± 3%	± 3%	± 3%	± 3%
Open Circuit Voltage (Voc)	22.00	22.00	22.00	21.50	22.00
Short Circuit Current (Isc)	1.81	2.48	2.98	3.60	4.62
Voltage at Maximum Peak Power(Vmpp)	18.40	18.40	18.40	18.20	18.40
Current at Maximum Peak Power (Impp)	1.68	2.35	2.75	3.40	4.30
Module Efficiency in %	13.20	13.20	13.40	13.20	13.40
Cell Number	36	36.00	36.00	36.00	36.00
Cell Type	Polycrystalline	Polycrystalline	Polycrystalline	Polycrystalline	Polycrystalline
Protection Type	IP65	IP65	IP65	IP65	IP65
Module Capacity	WT 36P80	WT 36P100	WT 36P120	WT 36P125	WT 36P150
Module Size(mm)	866 x 666 x 35	1056 x 666 x 35	1481 x 666 x 35	1481 x 666 x 35	1481 x 666 x 35
Peak Power(Pmax)	80.0	100	120	125	150
Tolerance on Pmax	± 3%	± 3%	± 3%	± 3%	± 3%
Open Circuit Voltage (Voc)	21.50	22.00	21.58	22.14	21.50
Short Circuit Current (Isc)	4.87	6.10	7.36	7.20	8.68
Voltage at Maximum Peak Power(Vmpp)	18.20	18.40	17.79	18.00	18.40
Current at Maximum Peak Power (Impp)	4.40	5.70	6.75	6.80	8.23
Module Efficiency in %	13.60	14.50	13.66	12.50	15.11
Cell Number	36.00	36.00	36.00	36.00	36.00
Cell Type	Polycrystalline	Polycrystalline	Polycrystalline	Polycrystalline	Polycrystalline
Protection Type	IP65	IP65	IP65	IP65	IP65

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MONOCRYSTALLINE

Module Capacity	WT 60M290	WT 60M295	WT 60M300	WT 60M305	WT 60M310	WT 66M325
Module Size(mm)	1651 x 991 x 40	1651 x 991 x 40	1651 x 991 x 40	1651 x 991 x 40	1651 x 991 x 40	1800 x 991 x 40
Peak Power(Pmax)	290	295	300	305	310	325
Tolerance on Pmax	± 3%	± 3%	± 3%	± 3%	± 3%	± 3%
Open Circuit Voltage (Voc)	39.65	39.85	40.10	40.4	40.6	44.1
Short Circuit Current (Isc)	9.36	9.45	9.53	9.62	9.71	9.49
Voltage at Maximum Peak Power(Vmpp)	32.1	32.35	32.65	32.87	33.05	35.65
Current at Maximum Peak Power (Impp)	9.04	9.12	9.19	9.28	9.38	9.12
Module Efficiency in %	17.86	18.17	18.48	18.79	19.09	18.24
Cell Number	60.00	60.00	60.00	60.00	60.00	66.00
Cell Type	Monocrystalline	Monocrystalline	Monocrystalline	Monocrystalline	Monocrystalline	Monocrystalline
Protection Type	IP65	IP65	IP65	IP65	IP65	IP65
Module Capacity	WT 66M330	WT 66M335	WT 72P350	WT 72P360	WT 72P370	WT 72P390
Module Size(mm)	1800 x 991 x 40	1800 x 991 x 40	1961 x 991 x 40	1961 x 991 x 40	1961 x 991 x 40	1961 x 991 x 40
Peak Power(Pmax)	330	335	350	360	370	390
Tolerance on Pmax	± 3%	± 3%	± 3%	± 3%	± 3%	± 3%
Open Circuit Voltage (Voc)	44.4	44.70	47.30	47.7	48.10	49.3
Short Circuit Current (Isc)	9.57	9.64	9.48	9.64	9.78	10.06
Voltage at Maximum Peak Power(Vmpp)	35.9	36.1	38.4	38.80	39.3	40.2
Current at Maximum Peak Power (Impp)	9.20	9.28	9.12	9.28	9.42	9.70
Module Efficiency in %	18.52	18.80	18.08	18.60	19.12	20.07
Cell Number	66.00	66.00	72.00	72.00	72.00	72.00
Cell Type	Monocrystalline	Monocrystalline	Monocrystalline	Monocrystalline	Monocrystalline	Monocrystalline
Protection Type	IP65	IP65	IP65	IP65	IP65	IP65

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