

TRANSFORMING THE POWER OF SUN



MONOFACIAL SOLAR PV MODULE 580-600 Wp

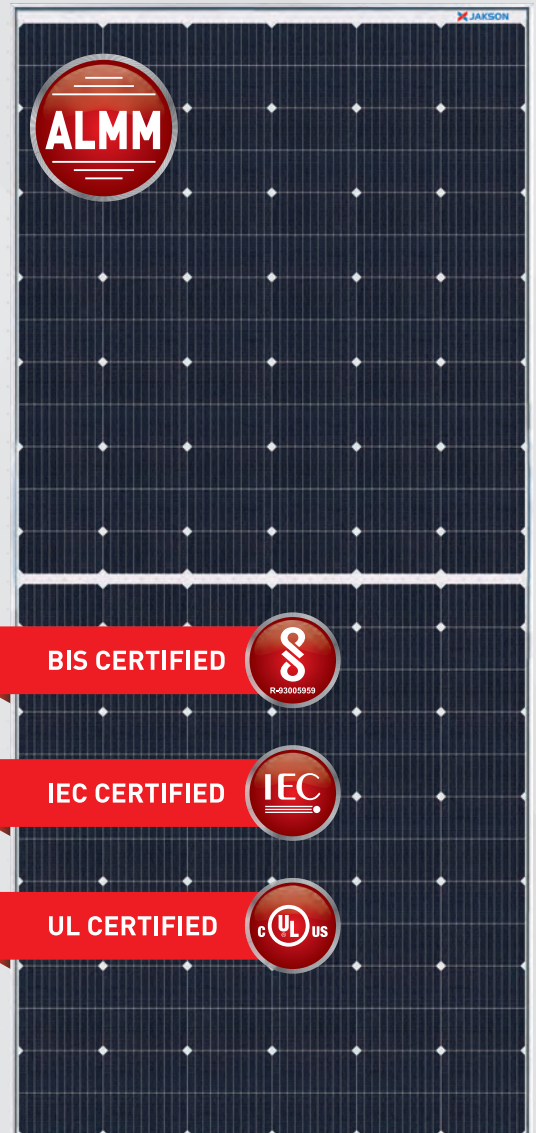
Best in Class Efficiency **21.48%**

MBB Technology **M10 Half Cut (156 Cells)**

Latest Water-less
Non-Destructive Cell Cutting (NDC)

FEATURES

-  Low LID Degradation using PERC Technology - Enhanced Power Generation During its Life Cycle
-  Improved Temperature Coefficients - Better Generation at Higher Temperature
-  Reduced Resistive Loss with MBB Technology - Excellent Module Performance
-  Half Cut Cell Design - Excellent Performance Under Partial Shading Conditions
-  Lower LCOE (Levelized Cost of Electricity) - Faster Return on Investment (ROI)
-  Manufactured in Fully Automatic Production Line
-  100% in line Hi-Pot testing, 100% EL Testing at 3 stages - Stringer, In process and Final Testing
-  Manufactured using certified Tier 1 BOM Meeting Highest Quality Standards
-  Certified for Salt Mist Resistant (Severity 6), Ammonia & PID Resistant
-  Better reliability under Extreme Environmental Conditions



Approvals and Certificates:

IEC 61215, IEC 61730 (I & II), IEC 61853, IEC 62804, IEC 60068, IEC 61701, IEC 62716, IS 14286 (BIS), UL 61730, ISO 9001:2015, 14001:2015, 45001:2018 certified, DEWA Approved





**MONOFACIAL SOLAR
PV MODULES
580-600Wp**



ELECTRICAL DATA - STC*

Model		JH-580M	JH-585M	JH-590M	JH-595M	JH-600M
Capacity Rating Wp	Pmax	580	585	590	595	600
Max. Power Voltage in V	Vpm	44.72	44.83	44.94	45.11	45.29
Max. Power Current in A	Ipm	12.97	13.05	13.13	13.19	13.25
Open Circuit Voltage in V	Voc	53.54	53.65	53.77	53.87	54.00
Short Circuit Current in A	Isc	13.79	13.86	13.92	13.99	14.05
Module Efficiency	%	20.77	20.95	21.13	21.30	21.48
Power Tolerance	Wp	-0/+4.99				

*STC: Irradiance 1000 W/m², cell temperature 25°C, Air Mass AM 1.5 according to EN 60904-3. Average efficiency reduction of 4.5 % at 200 W/m² according to EN 60904-1. Measurement uncertainty ±3%

MECHANICAL DATA

Dimensions (L x W x H)	2465 mm x 1133 mm x 35 mm (optional 40 mm)
Weight	31 kgs
Junction Box	Split JB, IP 68 with 3 bypass diodes
Cable	Solar Cable 4.0 mm ² , 400 mm (Higher cable option available on request)
Front Glass	3.2 mm, High Transmission, AR coated tempered glass
Solar Cells	Mono PERC Crystalline - M10 (156 pcs Half Cut)
Cell Encapsulation	EVA - Ethylene Vinyl Acetate
Backsheet	Composite Film
Frame	Anodized Aluminium Alloy
Mechanical Load Strength	5400 Pa (Snow Load), 2400 Pa (Wind Load)

TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	45°C (±2°C)
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	0.045%/°C
Temperature Coefficient of Pmax	-0.35%/°C

PERMISSIBLE OPERATING CONDITIONS

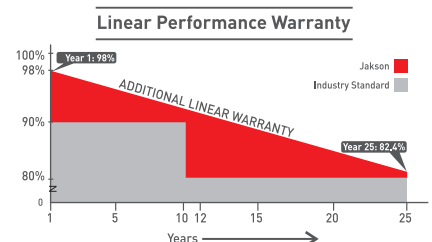
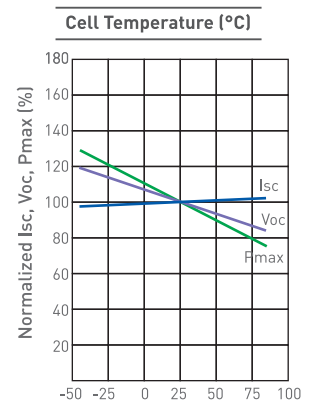
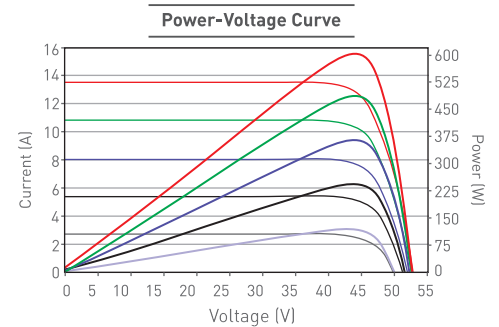
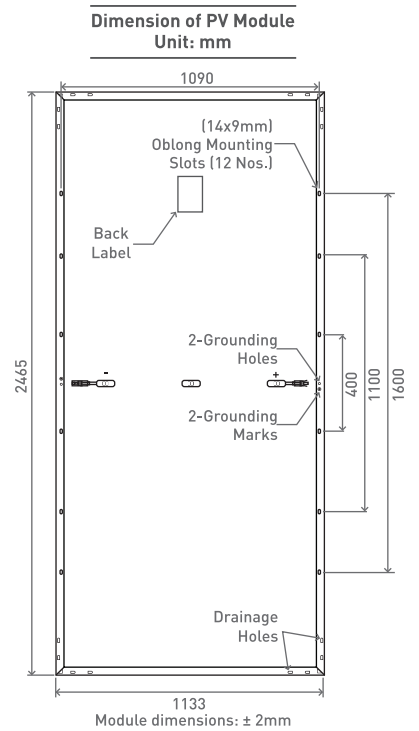
Temperature Range	-40°C to +85°C
Maximum System Voltage	1500 V DC
Max. Series Fuse Rating	25 A

WARRANTY AND CERTIFICATIONS

Product Warranty	12 years Product Workmanship Warranty
Performance Guarantee	25 year Linear Performance Warranty

PACKAGING CONFIGURATION

Container Size	40' HQ
Modules per Pallet	31
Modules per Container	496



JAKSON ENGINEERS LIMITED

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TRANSFORMING THE POWER OF SUN



MONOFACIAL SOLAR PV MODULE 540-555 Wp

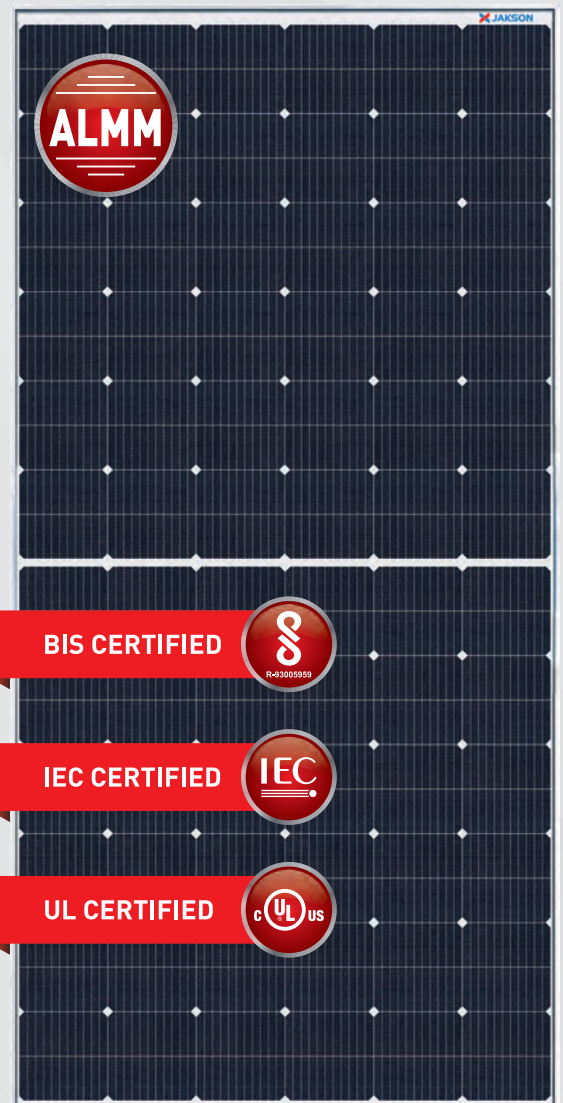
Best in Class Efficiency **21.50%**

MBB Technology **M10 Half Cut (144 Cells)**

Latest Water-less
Non-Destructive Cell Cutting (NDC)

FEATURES

-  Low LID Degradation using PERC Technology - Enhanced Power Generation During its Life Cycle
-  Improved Temperature Coefficients - Better Generation at Higher Temperature
-  Reduced Resistive Loss with MBB Technology - Excellent Module Performance
-  Half Cut Cell Design - Excellent Performance Under Partial Shading Conditions
-  Lower LCOE (Levelized Cost of Electricity) - Faster Return on Investment (ROI)
-  Manufactured in Fully Automatic Production Line
-  100% in line Hi-Pot testing, 100% EL Testing at 3 stages - Stringer, In process and Final Testing
-  Manufactured using certified Tier 1 BOM Meeting Highest Quality Standards
-  Certified for Salt Mist Resistant (Severity 6), Ammonia & PID Resistant
-  Better reliability under Extreme Environmental Conditions



Approvals and Certificates:

IEC 61215, IEC 61730 (I & II), IEC 61853, IEC 62804, IEC 60068, IEC 61701, IEC 62716, IS 14286 (BIS), UL 61730, ISO 9001:2015, 14001:2015, 45001:2018 certified, DEWA Approved





**MONOFACIAL SOLAR
PV MODULES
540-555Wp**



ELECTRICAL DATA - STC* & NOCT**

Model	Unit	JH-540M		JH-545M		JH-550M		JH-555M	
		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Capacity Rating Wp	Pmax	540	399	545	403	550	407	555	410
Max. Power Voltage in V	Vpm	41.64	39.35	41.80	39.50	41.93	39.62	42.05	39.74
Max. Power Current in A	Ipm	12.97	10.15	13.04	10.20	13.12	10.26	13.20	10.33
Open Circuit Voltage in V	Voc	49.60	46.59	49.75	46.74	49.90	46.88	50.00	46.97
Short Circuit Current in A	Isc	13.86	10.87	13.92	10.92	13.98	10.97	14.05	11.02
Module Efficiency	%	20.92		21.12		21.31		21.50	
Power Tolerance	Wp	-0/+4.99							

*STC: Irradiance 1000 W/m², cell temperature 25°C, Air Mass AM 1.5 according to EN 60904-3. Average efficiency reduction of 4.5% at 200 W/m² according to EN 60904-1. Measurement uncertainty ±3%

**NOCT irradiance 800 W/m², ambient temperature 20°C, wind speed 1 m/sec.

MECHANICAL DATA

Dimensions (L x W x H)	2278 mm x 1133 mm x 35 mm (optional 40 mm)
Weight	29 kgs
Junction Box	Split JB, IP 68 with 3 bypass diodes
Cable	Solar Cable 4.0 mm ² , 400 mm (Higher cable option available on request)
Front Glass	3.2 mm, High Transmission, AR coated tempered glass
Solar Cells	Mono PERC Crystalline - M10 (144 pcs Half Cut)
Cell Encapsulation	EVA - Ethylene Vinyl Acetate
Backsheet	Composite Film
Frame	Anodized Aluminium Alloy
Mechanical Load Strength	5400 Pa (Snow Load), 2400 Pa (Wind Load)

TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	45°C (±2°C)
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	0.045%/°C
Temperature Coefficient of Pmax	-0.35%/°C

PERMISSIBLE OPERATING CONDITIONS

Temperature Range	-40°C to +85°C
Maximum System Voltage	1500 V DC
Max. Series Fuse Rating	25 A

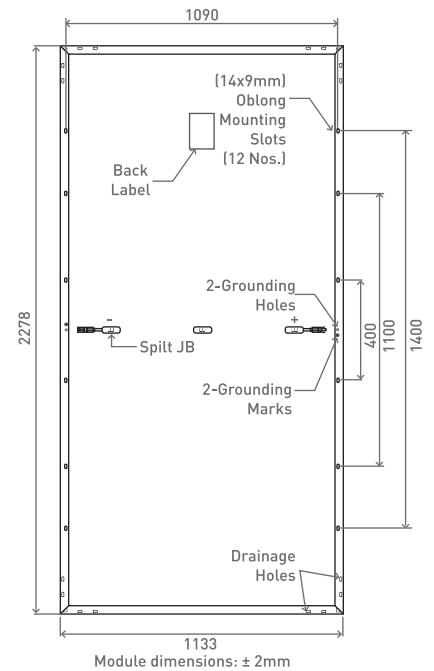
WARRANTY AND CERTIFICATIONS

Product Warranty	12 years Product Warranty
Performance Guarantee	25 year Linear Performance Warranty

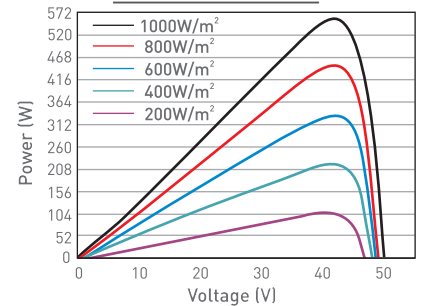
PACKAGING CONFIGURATION

Container Size	40' HQ
Modules per Pallet	31
Modules per Container	620

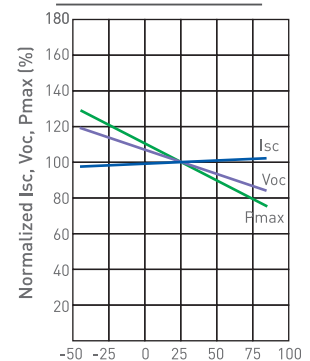
**Dimension of PV Module
Unit: mm**



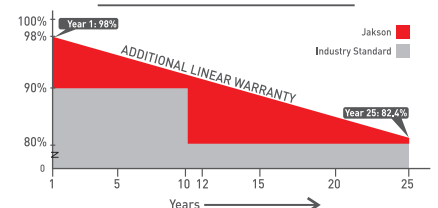
Power-Voltage Curve



Cell Temperature (°C)



Linear Performance Warranty



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TRANSFORMING THE POWER OF SUN



MONOFACIAL SOLAR PV MODULE 490-510 Wp

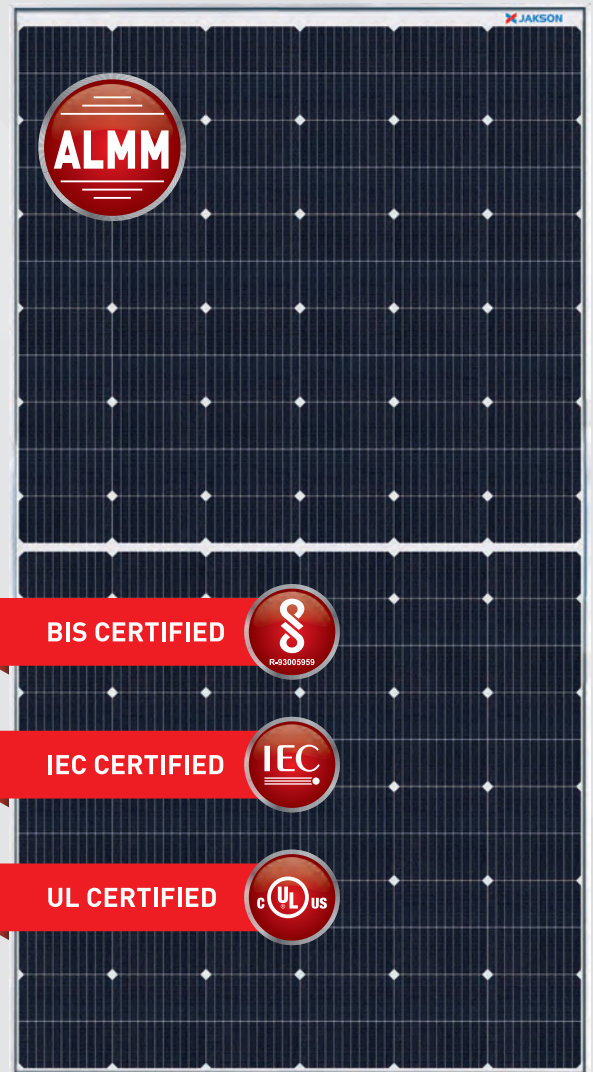
Best in Class Efficiency **21.50%**

MBB Technology **M10 Half Cut (132 Cells)**

Latest Water-less
Non-Destructive Cell Cutting (NDC)

FEATURES

-  Low LID Degradation using PERC Technology - Enhanced Power Generation During its Life Cycle
-  Improved Temperature Coefficients - Better Generation at Higher Temperature
-  Reduced Resistive Loss with MBB Technology - Excellent Module Performance
-  Half Cut Cell Design - Excellent Performance Under Partial Shading Conditions
-  Lower LCOE (Levelized Cost of Electricity) - Faster Return on Investment (ROI)
-  Manufactured in Fully Automatic Production Line
-  100% in line Hi-Pot testing, 100% EL Testing at 3 stages - Stringer, In process and Final Testing
-  Manufactured using certified Tier 1 BOM Meeting Highest Quality Standards
-  Certified for Salt Mist Resistant (Severity 6), Ammonia & PID Resistant
-  Better reliability under Extreme Environmental Conditions



Approvals and Certificates:

IEC 61215, IEC 61730 (I & II), IEC 61853, IEC 62804, IEC 60068, IEC 61701, IEC 62716, IS 14286 (BIS), UL 61730, ISO 9001:2015, 14001:2015, 45001:2018 certified, DEWA Approved





**MONOFACIAL SOLAR
PV MODULES
490-510Wp**



ELECTRICAL DATA - STC*

Model		JH-490M	JH-495M	JH-500M	JH-505M	JH-510M
Capacity Rating Wp	Pmax	490	495	500	505	510
Max. Power Voltage in V	Vpm	38.20	38.30	38.40	38.52	38.64
Max. Power Current in A	Ipm	12.83	12.93	13.03	13.12	13.20
Open Circuit Voltage in V	Voc	45.50	45.62	45.75	45.99	46.10
Short Circuit Current in A	Isc	13.74	13.80	13.86	13.90	13.97
Module Efficiency	%	20.65	20.86	21.07	21.29	21.50
Power Tolerance	Wp	-0/+4.99				

*STC: Irradiance 1000 W/m², cell temperature 25°C, Air Mass AM 1.5 according to EN 60904-3. Average efficiency reduction of 4.5 % at 200 W/m² according to EN 60904-1. Measurement uncertainty ±3%

MECHANICAL DATA

Dimensions (L x W x H)	2094 mm x 1133 mm x 35 mm (optional 40 mm)
Weight	27 kgs
Junction Box	Split JB, IP 68 with 3 bypass diodes
Cable	Solar Cable 4.0 mm ² , 400 mm (Higher cable option available on request)
Front Glass	3.2 mm, High Transmission, AR coated tempered glass
Solar Cells	Mono PERC Crystalline - M10 (132 pcs Half Cut)
Cell Encapsulation	EVA - Ethylene Vinyl Acetate
Backsheet	Composite Film
Frame	Anodized Aluminium Alloy
Mechanical Load Strength	5400 Pa (Snow Load), 2400 Pa (Wind Load)

TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	45°C (±2°C)
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	0.045%/°C
Temperature Coefficient of Pmax	-0.35%/°C

PERMISSIBLE OPERATING CONDITIONS

Temperature Range	-40°C to +85°C
Maximum System Voltage	1500 V DC
Max. Series Fuse Rating	25 A

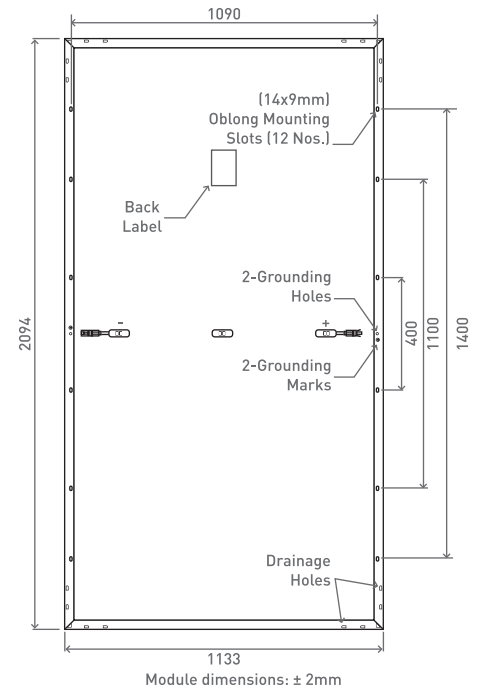
WARRANTY AND CERTIFICATIONS

Product Warranty	12 years Product Workmanship Warranty
Performance Guarantee	25 year Linear Performance Warranty

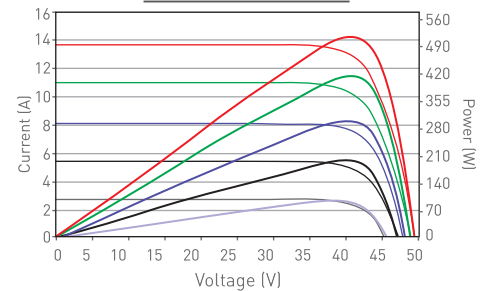
PACKAGING CONFIGURATION

Container Size	40' HQ
Modules per Pallet	31
Modules per Container	682

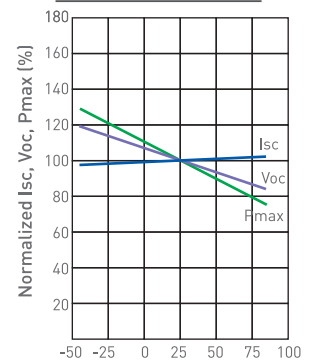
**Dimension of PV Module
Unit: mm**



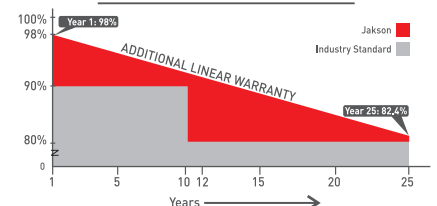
Power-Voltage Curve



Cell Temperature [°C]



Linear Performance Warranty



JAKSON ENGINEERS LIMITED

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TRANSFORMING THE POWER OF SUN



MONOFACIAL SOLAR PV MODULE 440-460 Wp

Best in Class Efficiency **21.23%**

MBB Technology **M10 Half Cut (120 Cells)**

Latest Water-less
Non-Destructive Cell Cutting (NDC)

FEATURES

-  Low LID Degradation using PERC Technology - Enhanced Power Generation During its Life Cycle
-  Improved Temperature Coefficients - Better Generation at Higher Temperature
-  Reduced Resistive Loss with MBB Technology - Excellent Module Performance
-  Half Cut Cell Design - Excellent Performance Under Partial Shading Conditions
-  Lower LCOE (Levelized Cost of Electricity) - Faster Return on Investment (ROI)
-  Manufactured in Fully Automatic Production Line
-  100% in line Hi-Pot testing, 100% EL Testing at 3 stages - Stringer, In process and Final Testing
-  Manufactured using certified Tier 1 BOM Meeting Highest Quality Standards
-  Certified for Salt Mist Resistant (Severity 6), Ammonia & PID Resistant
-  Better reliability under Extreme Environmental Conditions



Approvals and Certificates:

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**MONOFACIAL SOLAR
PV MODULES
440-460Wp**



ELECTRICAL DATA - STC*

Model		JH-440M	JH-445M	JH-450M	JH-455M	JH-460M
Capacity Rating Wp	Pmax	440	445	450	455	460
Max. Power Voltage in V	Vpm	34.11	34.26	34.43	34.58	34.83
Max. Power Current in A	Ipm	12.90	12.99	13.07	13.16	13.21
Open Circuit Voltage in V	Voc	40.85	41.05	41.22	41.40	41.52
Short Circuit Current in A	Isc	13.74	13.80	13.86	13.92	13.99
Module Efficiency	%	20,31	20,54	20,77	21,00	21,23
Power Tolerance	Wp	-0/+4.99				

*STC: Irradiance 1000 W/m², cell temperature 25°C, Air Mass AM 1.5 according to EN 60904-3. Average efficiency reduction of 4.5 % at 200 W/m² according to EN 60904-1. Measurement uncertainty ±3%

MECHANICAL DATA

Dimensions (L x W x H)	1912 mm x 1133 mm x 35 mm (optional 40 mm)
Weight	24 kgs
Junction Box	Split JB, IP 68 with 3 bypass diodes
Cable	Solar Cable 4.0 mm ² , 400 mm [Higher cable option available on request]
Front Glass	3.2 mm, High Transmission, AR coated tempered glass
Solar Cells	Mono PERC Crystalline - M10 (120 pcs Half Cut)
Cell Encapsulation	EVA - Ethylene Vinyl Acetate
Backsheet	Composite Film
Frame	Anodized Aluminium Alloy
Mechanical Load Strength	5400 Pa (Snow Load), 2400 Pa (Wind Load)

TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	45°C (±2°C)
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	0.045%/°C
Temperature Coefficient of Pmax	-0.35%/°C

PERMISSIBLE OPERATING CONDITIONS

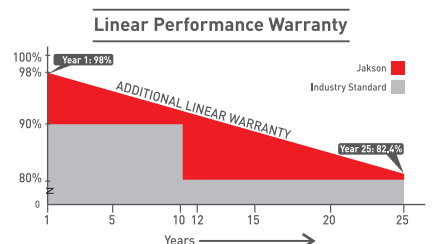
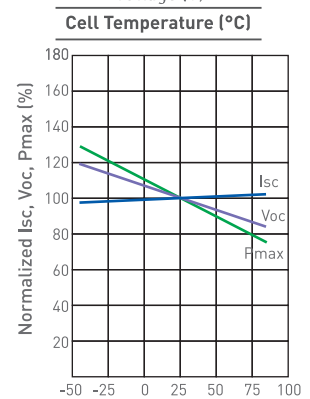
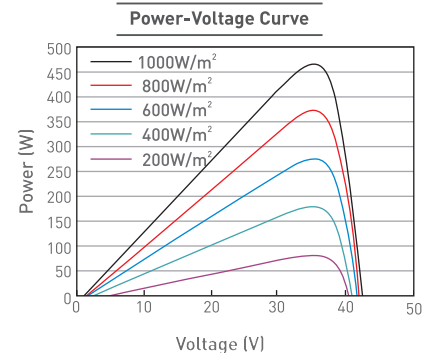
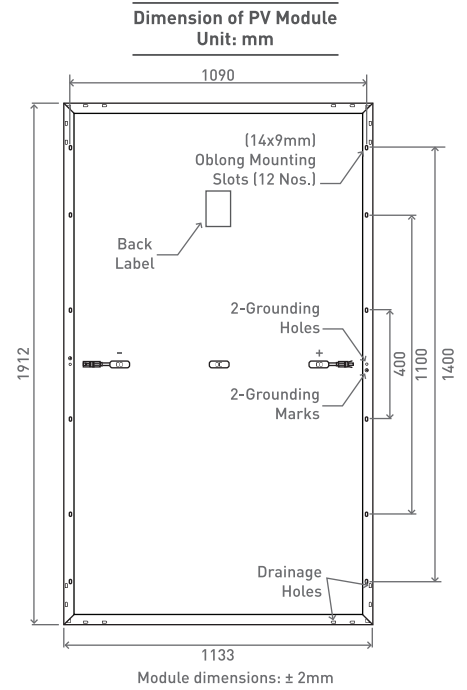
Temperature Range	-40°C to +85°C
Maximum System Voltage	1500 V DC
Max. Series Fuse Rating	25 A

WARRANTY AND CERTIFICATIONS

Product Warranty	12 years Product Workmanship Warranty
Performance Guarantee	25 year Linear Performance Warranty

PACKAGING CONFIGURATION

Container Size	40' HQ
Modules per Pallet	31
Modules per Container	744



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TRANSFORMING THE POWER OF SUN



MONOFACIAL SOLAR PV MODULE 400-415 Wp

Best in Class Efficiency **21.27%**

MBB Technology **M10 Half Cut (108 Cells)**

Latest Water-less
Non-Destructive Cell Cutting (NDC)

FEATURES

-  Low LID Degradation using PERC Technology - Enhanced Power Generation During its Life Cycle
-  Improved Temperature Coefficients - Better Generation at Higher Temperature
-  Reduced Resistive Loss with MBB Technology - Excellent Module Performance
-  Half Cut Cell Design - Excellent Performance Under Partial Shading Conditions
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**MONOFACIAL SOLAR
PV MODULES
400-415Wp**



ELECTRICAL DATA - STC*

Model		JH-400M	JH-405M	JH-410M	JH-415M
Capacity Rating Wp	Pmax	400	405	410	415
Max. Power Voltage in V	Vpm	30.85	31.06	31.26	31.42
Max. Power Current in A	Ipm	12.97	13.04	13.12	13.21
Open Circuit Voltage in V	Voc	36.76	36.94	37.12	37.30
Short Circuit Current in A	Isc	13.86	13.92	13.98	14.05
Module Efficiency	%	20.50	20.76	21.01	21.27
Power Tolerance	Wp		-0/+4.99		

*STC: Irradiance 1000 W/m², cell temperature 25°C, Air Mass AM 1.5 according to EN 60904-3. Average efficiency reduction of 4.5 % at 200 W/m² according to EN 60904-1. Measurement uncertainty ±3%

MECHANICAL DATA

Dimensions (L x W x H)	1722 mm x 1133 mm x 35 mm (optional 40 mm)
Weight	21.5 kgs
Junction Box	Split JB, IP 68 with 3 bypass diodes
Cable	Solar Cable 4.0 mm ² , 400 mm [Higher cable option available on request]
Front Glass	3.2 mm, High Transmission, AR coated tempered glass
Solar Cells	Mono PERC Crystalline - M10 (108 pcs Half Cut)
Cell Encapsulation	EVA - Ethylene Vinyl Acetate
Backsheet	Composite Film
Frame	Anodized Aluminium Alloy
Mechanical Load Strength	5400 Pa (Snow Load), 2400 Pa (Wind Load)

TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	45°C (±2°C)
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	0.045%/°C
Temperature Coefficient of Pmax	-0.35%/°C

PERMISSIBLE OPERATING CONDITIONS

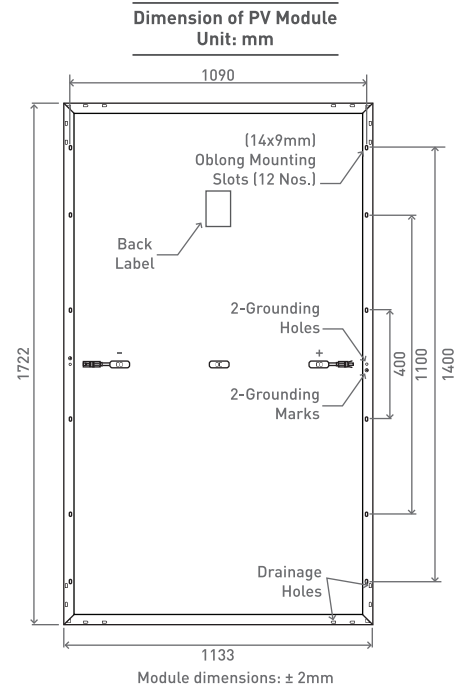
Temperature Range	-40°C to +85°C
Maximum System Voltage	1500 V DC
Max. Series Fuse Rating	25 A

WARRANTY AND CERTIFICATIONS

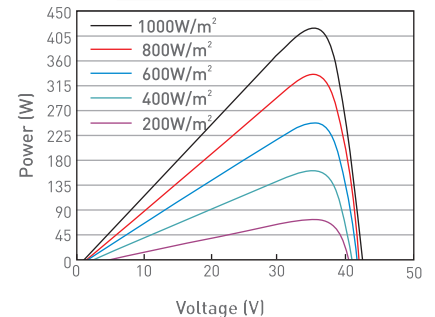
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Performance Guarantee	25 year Linear Performance Warranty

PACKAGING CONFIGURATION

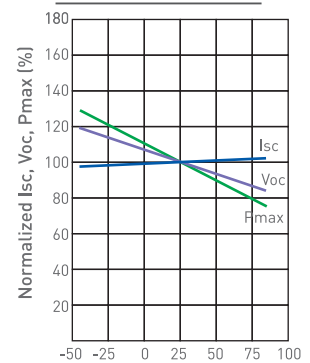
Container Size	40' HQ
Modules per Pallet	31
Modules per Container	806



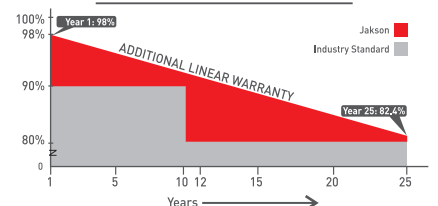
Power-Voltage Curve



Cell Temperature (°C)



Linear Performance Warranty



JAKSON ENGINEERS LIMITED

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