

DATASHEET M10

Mono Perc 144 Cells



RITIKA[®]
Powering Lives since 1985

**SOLAR PANEL MANUFACTURING UNIT
M10 MONO PERC/TOPCON SOLAR PANELS**



RSPL PV Modules

are manufactured with the highest A grade materials and features best in class quality and performance. Our Meticulous product design and stringent process control ensures our modules deliver an exceptional high PV yield and stand the test of time.



MONO PERC M10-132 Cell RSPLM132P520

- Excellent Power Output with +ve Tolerance (up to 3%)
- Performance Warranty: Linear power warranty for 27 years with 2% for 1st year degradation and 0.55% from year 2 to year 27
- 12 Year Limited Product Warranty
- PID Resistance

Features

- ARC, Ultra-clear toughened glass
- Reinforced anodized aluminium frame
- Pre-drilled frame for easy mounting
- IP-68 rated Junction Box
- Solar MC4 compatible connector
- Fire safety class C
- Safety class II

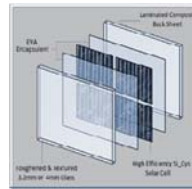


Applications

- On-grid systems
- BIPV
- Solar farms
- Standalone (off-grid) systems
- Solar Pump

Constructional Characteristics

- Frame
- Glass
- EVA
- Cells
- Back sheet

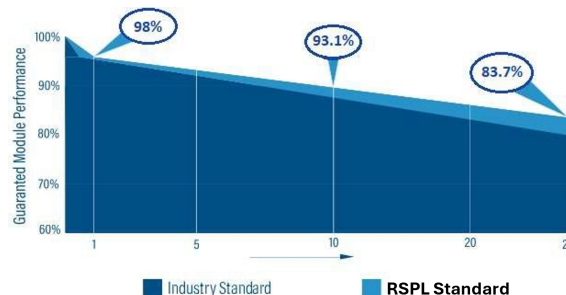
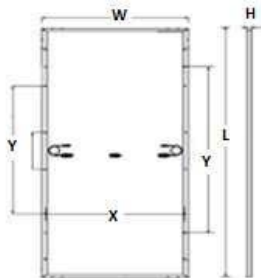


Certifications

- IS:14286 // IEC 61215
- IS / IEC 61730 I & II
- IEC 61701 (Salt Mist Test)
- IEC 62804 (PID)
- ISO 9001-2015; ISO 14001-2015
- ISO 45001: 2018

Specifications	RSPLM132P520		
Cell	Mono PERC		
Electrical Characteristics	UNIT	STC	NOCT
Power (Pmax)	W	520	391
Open Circuit Voltage (Voc)	V	49.00	45.74
Optimum Operating Voltage (Vmp)	V	41.00	38.27
Short Circuit Current (Isc)	A	13.58	10.94
Optimum operating Current (Imp)	A	12.69	10.23
Module Efficiency (η)%	%	20.12%	
Fuse Rating	25 Amps		
Bypass Diode	3 Nos.		
System Voltage	1500 VDC		
Operating Conditions	- 40°C to + 85°C & 85% RH		
Temperature Co-efficient for Isc/°C (α)	0.0289		
Temperature Co-efficient for Voc/°C (β)	-0.2080		
Temperature Co-efficient for power/°C (γ)	-0.2300		
NOCT	45°C ± 2°C		
Mechanical Characteristics			
Weight	28 kg		
Module Dimension (L) x (W) x (H)	2278 x 1134 x 35 mm		
Mounting Hole (Oblong) (I x J)	9 x 14 mm		
Mounting Hole CTC distance - vertical (Y)	1000 & 1400 mm		
Mounting Hole CTC distance - horizontal (X)	1091 mm		

Frame Design



IS 14286:2010/
IEC 61215:2015,
IS/IEC 61730
(Part-1 & Part-2):2004



R-84002445
www.bis.gov.in

Compliance of Simulator readings with an accuracy of class AAA (±2%)

Note:

1. Due to constant product modifications RSPL reserves the right to amend the above specifications without prior notice. The Electrical data given here is for reference purpose only.
2. For handling & installation instructions, refer RSPL Installation Manual.
3. Please read RSPL warranty documents thoroughly
4. Please confirm our exact requirements with sales representative while placing your order. All dimensions have standard variations of 3 mm**. Black and Transparent Back sheet and black frame module without IEC certification.

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MONO PERC M10-144 Cell RSPLM144P525

- Excellent Power Output with +ve Tolerance (up to 3%)
- Performance Warranty: Linear power warranty for 27 years with 2% for 1st year degradation and 0.55% from year 2 to year 27
- 12 Year Limited Product Warranty
- PID Resistance

Features

- ARC, Ultra-clear toughened glass
- Reinforced anodized aluminium frame
- Pre-drilled frame for easy mounting
- IP-68 rated Junction Box
- Solar MC4 compatible connector
- Fire safety class C
- Safety class II

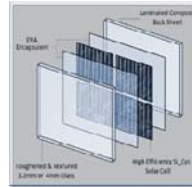


Applications

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Constructional Characteristics

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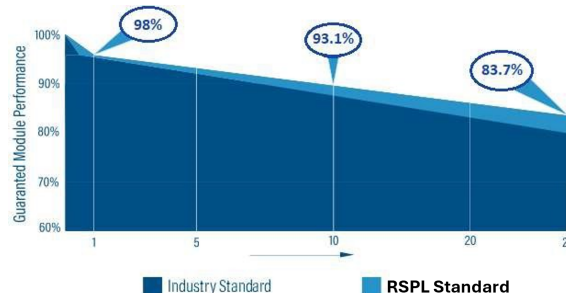
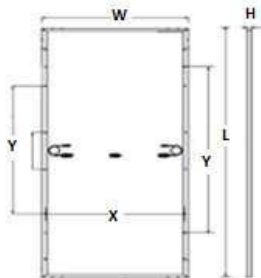


Certifications

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- IS / IEC 61730 I & II
- IEC 61701 (Salt Mist Test)
- IEC 62804 (PID)
- ISO 9001-2015; ISO 14001-2015
- ISO 45001: 2018

Specifications	RSPLM144P525		
Cell	Mono PERC		
Electrical Characteristics	UNIT	STC	NOCT
Power (Pmax)	W	525	395
Open Circuit Voltage (Voc)	V	49.15	45.88
Optimum Operating Voltage (Vmp)	V	41.15	38.41
Short Circuit Current (Isc)	A	13.65	11.00
Optimum operating Current (Imp)	A	12.76	10.28
Module Efficiency (η)%	%	20.32%	
Fuse Rating	25 Amps		
Bypass Diode	3 Nos.		
System Voltage	1500 VDC		
Operating Conditions	- 40°C to + 85°C & 85% RH		
Temperature Co-efficient for Isc/°C (α)	0.0289		
Temperature Co-efficient for Voc/°C (β)	-0.2080		
Temperature Co-efficient for power/°C (γ)	-0.2300		
NOCT	45°C ± 2°C		
Mechanical Characteristics			
Weight	28 kg		
Module Dimension (L) x (W) x (H)	2278 x 1134 x 35 mm		
Mounting Hole (Oblong) (I x J)	9 x 14 mm		
Mounting Hole CTC distance - vertical (Y)	1000 & 1400 mm		
Mounting Hole CTC distance - horizontal (X)	1091 mm		

Frame Design



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MONO PERC M10-144 Cell RSPLM144P530

Features

- Excellent Power Output with +ve Tolerance (up to 3%)
- Performance Warranty: Linear power warranty for 27 years with 2% for 1st year degradation and 0.55% from year 2 to year 27
- 12 Year Limited Product Warranty
- PID Resistance
- ARC, Ultra-clear toughened glass
- Reinforced anodized aluminium frame
- Pre-drilled frame for easy mounting
- IP-68 rated Junction Box
- Solar MC4 compatible connector
- Fire safety class C
- Safety class II

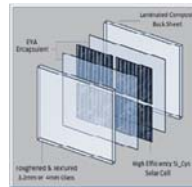


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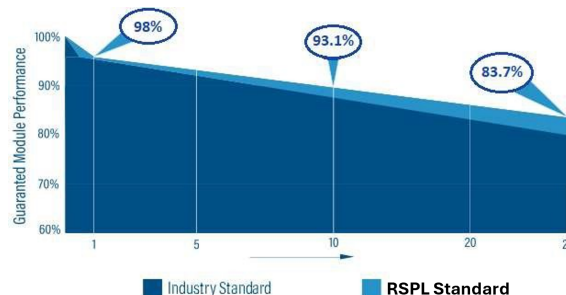
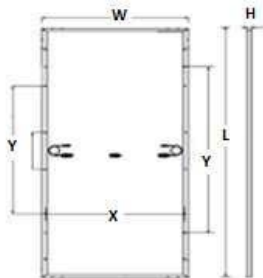


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- IEC 62804 (PID)
- ISO 9001-2015; ISO 14001-2015
- ISO 45001: 2018

Specifications	RSPLM144P530		
Cell	Mono PERC		
Electrical Characteristics	UNIT	STC	NOCT
Power (Pmax)	W	530	399
Open Circuit Voltage (Voc)	V	49.30	46.02
Optimum Operating Voltage (Vmp)	V	41.31	38.56
Short Circuit Current (Isc)	A	13.72	11.06
Optimum operating Current (Imp)	A	12.83	10.34
Module Efficiency (η)%	%	20.40%	
Fuse Rating	25 Amps		
Bypass Diode	3 Nos.		
System Voltage	1500 VDC		
Operating Conditions	- 40°C to + 85°C & 85% RH		
Temperature Co-efficient for Isc/°C (α)	0.0289		
Temperature Co-efficient for Voc/°C (β)	-0.2080		
Temperature Co-efficient for power/°C (γ)	-0.2300		
NOCT	45°C ± 2°C		
Mechanical Characteristics			
Weight	28 kg		
Module Dimension (L) x (W) x (H)	2278 x 1134 x 35 mm		
Mounting Hole (Oblong) (I x J)	9 x 14 mm		
Mounting Hole CTC distance - vertical (Y)	1000 & 1400 mm		
Mounting Hole CTC distance - horizontal (X)	1091 mm		

Frame Design



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(Part-1 & Part-2):2004



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MONO PERC M10-144 Cell RSPLM144P535

- Excellent Power Output with +ve Tolerance (up to 3%)
- Performance Warranty: Linear power warranty for 27 years with 2% for 1st year degradation and 0.55% from year 2 to year 27
- 12 Year Limited Product Warranty
- PID Resistance

Features

- ARC, Ultra-clear toughened glass
- Reinforced anodized aluminium frame
- Pre-drilled frame for easy mounting
- IP-68 rated Junction Box
- Solar MC4 compatible connector
- Fire safety class C
- Safety class II

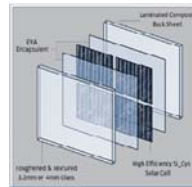


Applications

- On-grid systems
- BIPV
- Solar farms
- Standalone (off-grid) systems
- Solar Pump

Constructional Characteristics

- Frame
- Glass
- EVA
- Cells
- Back sheet

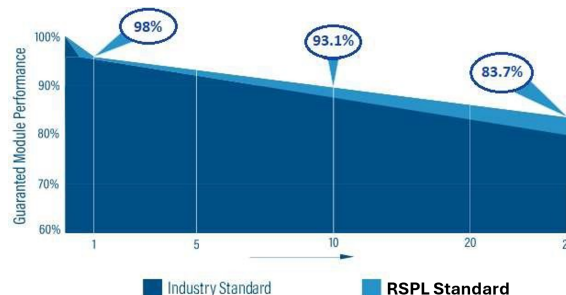
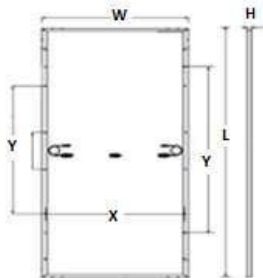


Certifications

- IS:14286 // IEC 61215
- IS / IEC 61730 I & II
- IEC 61701 (Salt Mist Test)
- IEC 62804 (PID)
- ISO 9001-2015; ISO 14001-2015
- ISO 45001: 2018

Specifications	RSPLM144P535		
Cell	Mono PERC		
Electrical Characteristics	UNIT	STC	NOCT
Power (Pmax)	W	535	403
Open Circuit Voltage (Voc)	V	49.45	46.16
Optimum Operating Voltage (Vmp)	V	41.47	38.71
Short Circuit Current (Isc)	A	13.79	11.11
Optimum operating Current (Imp)	A	12.91	10.40
Module Efficiency (η)%	%	20.60%	
Fuse Rating	25 Amps		
Bypass Diode	3 Nos.		
System Voltage	1500 VDC		
Operating Conditions	- 40°C to + 85°C & 85% RH		
Temperature Co-efficient for Isc/°C (α)	0.0289		
Temperature Co-efficient for Voc/°C (β)	-0.2080		
Temperature Co-efficient for power/°C (γ)	-0.2300		
NOCT	45°C ± 2°C		
Mechanical Characteristics			
Weight	28 kg		
Module Dimension (L) x (W) x (H)	2278 x 1134 x 35 mm		
Mounting Hole (Oblong) (I x J)	9 x 14 mm		
Mounting Hole CTC distance - vertical (Y)	1000 & 1400 mm		
Mounting Hole CTC distance - horizontal (X)	1091 mm		

Frame Design



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(Part-1 & Part-2):2004



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MONO PERC M10-144 Cell RSPLM144P540

Features

- Excellent Power Output with +ve Tolerance (up to 3%)
- Performance Warranty: Linear power warranty for 27 years with 2% for 1st year degradation and 0.55% from year 2 to year 27
- 12 Year Limited Product Warranty
- PID Resistance
- ARC, Ultra-clear toughened glass
- Reinforced anodized aluminium frame
- Pre-drilled frame for easy mounting
- IP-68 rated Junction Box
- Solar MC4 compatible connector
- Fire safety class C
- Safety class II

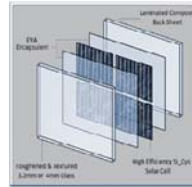


Applications

- On-grid systems
- BIPV
- Solar farms
- Standalone (off-grid) systems
- Solar Pump

Constructional Characteristics

- Frame
- Glass
- EVA
- Cells
- Back sheet

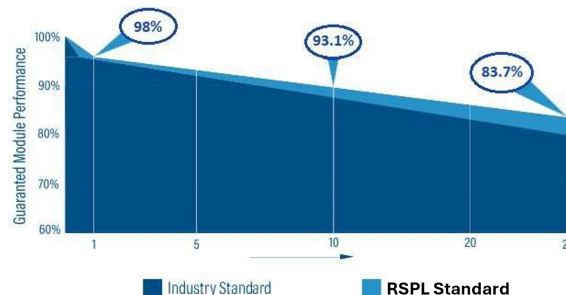
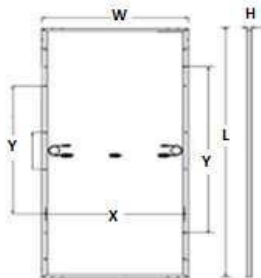


Certifications

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- IS / IEC 61730 I & II
- IEC 61701 (Salt Mist Test)
- IEC 62804 (PID)
- ISO 9001-2015; ISO 14001-2015
- ISO 45001: 2018

Specifications	RSPLM144P540		
Cell	Mono PERC		
Electrical Characteristics	UNIT	STC	NOCT
Power (Pmax)	W	540	406
Open Circuit Voltage (Voc)	V	49.60	46.30
Optimum Operating Voltage (Vmp)	V	41.64	38.87
Short Circuit Current (Isc)	A	13.86	11.17
Optimum operating Current (Imp)	A	12.97	10.45
Module Efficiency (η)%	%	20.90%	
Fuse Rating	25 Amps		
Bypass Diode	3 Nos.		
System Voltage	1500 VDC		
Operating Conditions	- 40°C to + 85°C & 85% RH		
Temperature Co-efficient for Isc/°C (α)	0.0289		
Temperature Co-efficient for Voc/°C (β)	-0.2080		
Temperature Co-efficient for power/°C (γ)	-0.2300		
NOCT	45°C ± 2°C		
Mechanical Characteristics			
Weight	28 kg		
Module Dimension (L) x (W) x (H)	2278 x 1134 x 35 mm		
Mounting Hole (Oblong) (I x J)	9 x 14 mm		
Mounting Hole CTC distance - vertical (Y)	1000 & 1400 mm		
Mounting Hole CTC distance - horizontal (X)	1091 mm		

Frame Design



IS 14286:2010/
IEC 61215:2015,
IS/IEC 61730
(Part-1 & Part-2):2004



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MONO PERC M10-144 Cell RSPLM144P545

- Excellent Power Output with +ve Tolerance (up to 3%)
- Performance Warranty: Linear power warranty for 27 years with 2% for 1st year degradation and 0.55% from year 2 to year 27
- 12 Year Limited Product Warranty
- PID Resistance

Features

- ARC, Ultra-clear toughened glass
- Reinforced anodized aluminium frame
- Pre-drilled frame for easy mounting
- IP-68 rated Junction Box
- Solar MC4 compatible connector
- Fire safety class C
- Safety class II

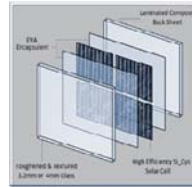


Applications

- On-grid systems
- BIPV
- Solar farms
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- Solar Pump

Constructional Characteristics

- Frame
- Glass
- EVA
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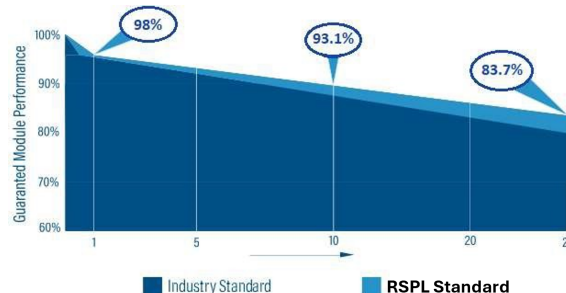
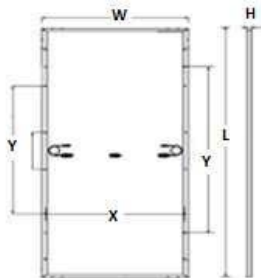


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- IEC 62804 (PID)
- ISO 9001-2015; ISO 14001-2015
- ISO 45001: 2018

Specifications	RSPLM144P545		
Cell	Mono PERC		
Electrical Characteristics	UNIT	STC	NOCT
Power (Pmax)	W	545	410
Open Circuit Voltage (Voc)	V	49.75	46.44
Optimum Operating Voltage (Vmp)	V	41.80	39.02
Short Circuit Current (Isc)	A	13.93	11.22
Optimum operating Current (Imp)	A	13.04	10.51
Module Efficiency (η)%	%	21.10%	
Fuse Rating	25 Amps		
Bypass Diode	3 Nos.		
System Voltage	1500 VDC		
Operating Conditions	- 40°C to + 85°C & 85% RH		
Temperature Co-efficient for Isc/°C (α)	0.0289		
Temperature Co-efficient for Voc/°C (β)	-0.2080		
Temperature Co-efficient for power/°C (γ)	-0.2300		
NOCT	45°C ± 2°C		
Mechanical Characteristics			
Weight	28 kg		
Module Dimension (L) x (W) x (H)	2278 x 1134 x 35 mm		
Mounting Hole (Oblong) (I x J)	9 x 14 mm		
Mounting Hole CTC distance - vertical (Y)	1000 & 1400 mm		
Mounting Hole CTC distance - horizontal (X)	1091 mm		

Frame Design



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MONO PERC M10-144 Cell RSPLM144P550

- Excellent Power Output with +ve Tolerance (up to 3%)
- Performance Warranty: Linear power warranty for 27 years with 2% for 1st year degradation and 0.55% from year 2 to year 27
- 12 Year Limited Product Warranty
- PID Resistance

Features

- ARC, Ultra-clear toughened glass
- Reinforced anodized aluminium frame
- Pre-drilled frame for easy mounting
- IP-68 rated Junction Box
- Solar MC4 compatible connector
- Fire safety class C
- Safety class II

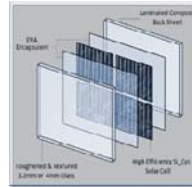


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- Solar farms
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Constructional Characteristics

- Frame
- Glass
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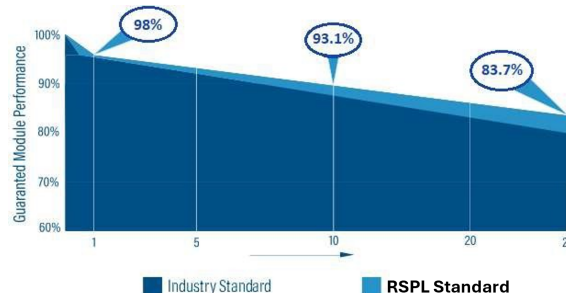
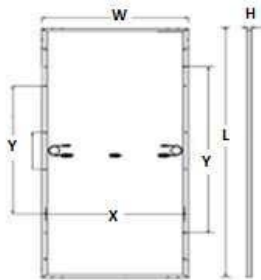


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- ISO 45001: 2018

Specifications	RSPLM144P550		
Cell	Mono PERC		
Electrical Characteristics	UNIT	STC	NOCT
Power (Pmax)	W	550	414
Open Circuit Voltage (Voc)	V	49.90	46.58
Optimum Operating Voltage (Vmp)	V	41.96	39.17
Short Circuit Current (Isc)	A	13.96	11.25
Optimum operating Current (Imp)	A	13.11	10.56
Module Efficiency (η)%	%	21.20%	
Fuse Rating	25 Amps		
Bypass Diode	3 Nos.		
System Voltage	1500 VDC		
Operating Conditions	- 40°C to + 85°C & 85% RH		
Temperature Co-efficient for Isc/°C (α)	0.0289		
Temperature Co-efficient for Voc/°C (β)	-0.2080		
Temperature Co-efficient for power/°C (γ)	-0.2300		
NOCT	45°C ± 2°C		
Mechanical Characteristics			
Weight	28 kg		
Module Dimension (L) x (W) x (H)	2278 x 1134 x 35 mm		
Mounting Hole (Oblong) (I x J)	9 x 14 mm		
Mounting Hole CTC distance - vertical (Y)	1000 & 1400 mm		
Mounting Hole CTC distance - horizontal (X)	1091 mm		

Frame Design



IS 14286:2010/
IEC 61215:2015,
IS/IEC 61730
(Part-1 & Part-2):2004



R-84002445
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Compliance of Simulator readings with an accuracy of class AAA (±2%)

Note:

1. Due to constant product modifications RSPL reserves the right to amend the above specifications without prior notice. The Electrical data given here is for reference purpose only.
2. For handling & installation instructions, refer RSPL Installation Manual.
3. Please read RSPL warranty documents thoroughly
4. Please confirm our exact requirements with sales representative while placing your order. All dimensions have standard variations of 3 mm**. Black and Transparent Back sheet and black frame module without IEC certification.

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RSPL PV Modules

are manufactured with the highest A grade materials and features best in class quality and performance. Our Meticulous product design and stringent process control ensures our modules deliver an exceptional high PV yield and stand the test of time.



MONO PERC M10-144 Cell RSPLM144P555

Features

- Excellent Power Output with +ve Tolerance (up to 3%)
- Performance Warranty: Linear power warranty for 27 years with 2% for 1st year degradation and 0.55% from year 2 to year 27
- 12 Year Limited Product Warranty
- PID Resistance
- ARC, Ultra-clear toughened glass
- Reinforced anodized aluminium frame
- Pre-drilled frame for easy mounting
- IP-68 rated Junction Box
- Solar MC4 compatible connector
- Fire safety class C
- Safety class II

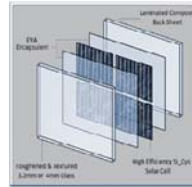


Applications

- On-grid systems
- BIPV
- Solar farms
- Standalone (off-grid) systems
- Solar Pump

Constructional Characteristics

- Frame
- Glass
- EVA
- Cells
- Back sheet

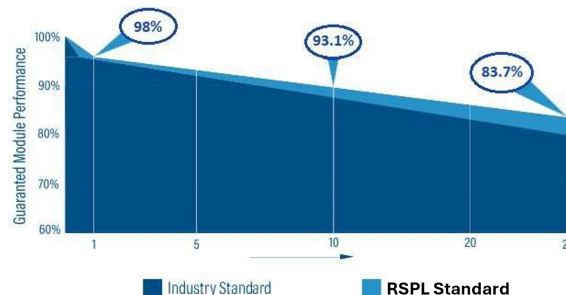
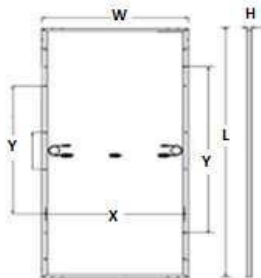


Certifications

- IS:14286 // IEC 61215
- IS / IEC 61730 I & II
- IEC 61701 (Salt Mist Test)
- IEC 62804 (PID)
- ISO 9001-2015; ISO 14001-2015
- ISO 45001: 2018

Specifications	RSPLM144P555		
Cell	Mono PERC		
Electrical Characteristics	UNIT	STC	NOCT
Power (Pmax)	W	555	418
Open Circuit Voltage (Voc)	V	50.05	46.72
Optimum Operating Voltage (Vmp)	V	42.12	39.31
Short Circuit Current (Isc)	A	14.07	11.34
Optimum operating Current (Imp)	A	13.18	10.62
Module Efficiency (η)%	%	21.48%	
Fuse Rating	25 Amps		
Bypass Diode	3 Nos.		
System Voltage	1500 VDC		
Operating Conditions	- 40°C to + 85°C & 85% RH		
Temperature Co-efficient for Isc/°C (α)	0.0289		
Temperature Co-efficient for Voc/°C (β)	-0.2080		
Temperature Co-efficient for power/°C (γ)	-0.2300		
NOCT	45°C ± 2°C		
Mechanical Characteristics			
Weight	28 kg		
Module Dimension (L) x (W) x (H)	2278 x 1134 x 35 mm		
Mounting Hole (Oblong) (I x J)	9 x 14 mm		
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