
DATASHEET M10

Mono Perc 144 Cells



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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	Features	
<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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	Constructional Characteristics	Certifications
<ul style="list-style-type: none"> On-grid systems BIPV Solar farms Standalone (off-grid) systems Solar Pump 	<ul style="list-style-type: none"> Frame Glass EVA Cells Back sheet 	<ul style="list-style-type: none"> 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

Year	Performance (%)
1	98%
5	-
10	93.1%
20	-
27	83.7%

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:**
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 - Please read RSPL warranty documents thoroughly
 - 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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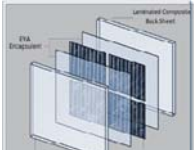
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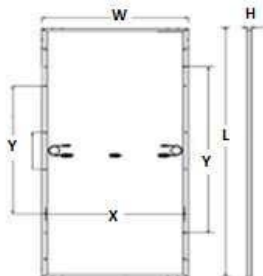
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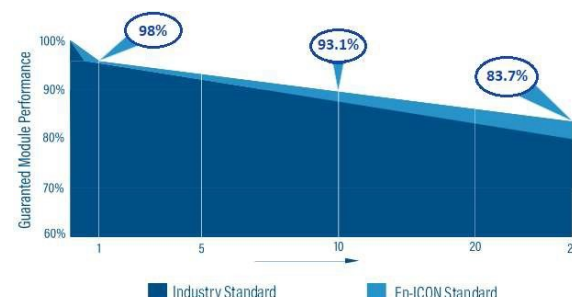
MONO PERC M10-144 Cell RSPLM144P525	Features	
<ul style="list-style-type: none"> Excellent Power Output with +ve Tolerance (up to 3%) Performance Warranty: Linear power warranty for 27 years with 2% for 1st year degradation and 0.55% from year 2 to year 27 12 Year Limited Product Warranty PID Resistance 	<ul style="list-style-type: none"> 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	Constructional Characteristics	Certifications
<ul style="list-style-type: none"> On-grid systems BIPV Solar farms Standalone (off-grid) systems Solar Pump 	<ul style="list-style-type: none"> Frame Glass EVA Cells Back sheet 	<ul style="list-style-type: none"> 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	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





Year	Industry Standard (%)	En-ICON Standard (%)
1	98.0	98.0
5	93.1	93.1
10	88.2	88.2
20	83.7	83.7
27	83.7	83.7

IS 14286:2010/
IEC 61215:2015,
IS/IEC 61730
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MONO PERC M10-144 Cell RSPLM144P530	Features	
<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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	Constructional Characteristics	Certifications
<ul style="list-style-type: none"> On-grid systems BIPV Solar farms Standalone (off-grid) systems Solar Pump 	<ul style="list-style-type: none"> Frame Glass EVA Cells Back sheet 	<ul style="list-style-type: none"> 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	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

Year	Industry Standard (%)	En-ICON Standard (%)
1	98.0	98.0
5	93.1	93.1
10	88.2	88.2
20	83.7	83.7
27	83.7	83.7

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

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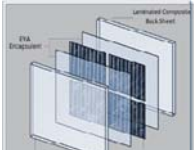
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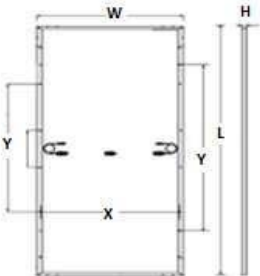
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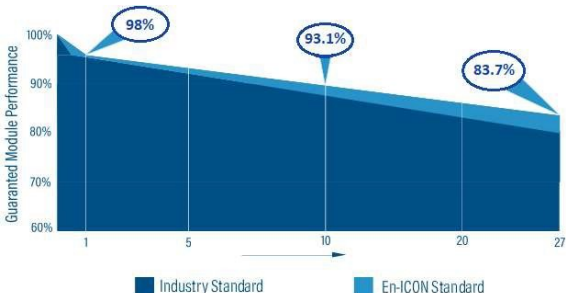
MONO PERC M10-144 Cell RSPLM144P535	Features	
<ul style="list-style-type: none"> Excellent Power Output with +ve Tolerance (up to 3%) Performance Warranty: Linear power warranty for 27 years with 2% for 1st year degradation and 0.55% from year 2 to year 27 12 Year Limited Product Warranty PID Resistance 	<ul style="list-style-type: none"> 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	Constructional Characteristics	Certifications
<ul style="list-style-type: none"> On-grid systems BIPV Solar farms Standalone (off-grid) systems Solar Pump 	<ul style="list-style-type: none"> Frame Glass EVA Cells Back sheet 	<ul style="list-style-type: none"> 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





Year	Industry Standard (%)	En-ICON Standard (%)
1	98.0	98.0
5	93.1	93.1
10	88.2	88.2
20	83.7	83.7
27	83.7	83.7

IS 14286:2010/
IEC 61215:2015,
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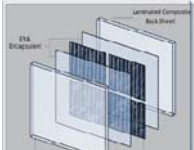
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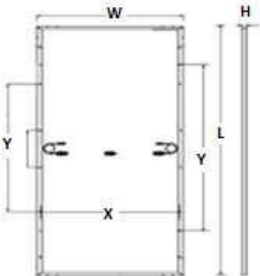
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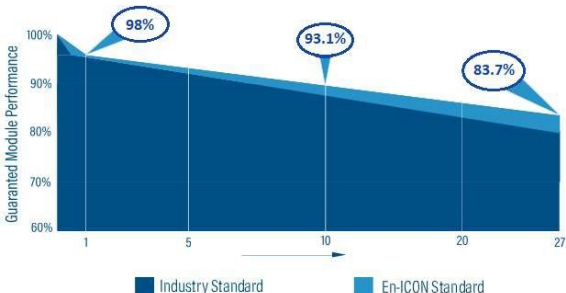
MONO PERC M10-144 Cell RSPLM144P540	Features	
<ul style="list-style-type: none"> Excellent Power Output with +ve Tolerance (up to 3%) Performance Warranty: Linear power warranty for 27 years with 2% for 1st year degradation and 0.55% from year 2 to year 27 12 Year Limited Product Warranty PID Resistance 	<ul style="list-style-type: none"> 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	Constructional Characteristics	Certifications
<ul style="list-style-type: none"> On-grid systems BIPV Solar farms Standalone (off-grid) systems Solar Pump 	<ul style="list-style-type: none"> Frame Glass EVA Cells Back sheet 	<ul style="list-style-type: none"> 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	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





Year	Industry Standard (%)	En-ICON Standard (%)
1	98%	98%
5	~95%	~95%
10	~91%	93.1%
20	~85%	~85%
27	~80%	83.7%

IS 14286:2010/
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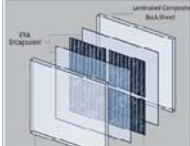
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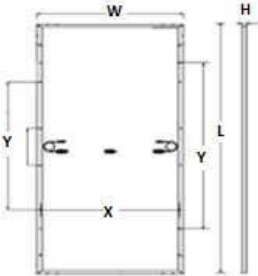
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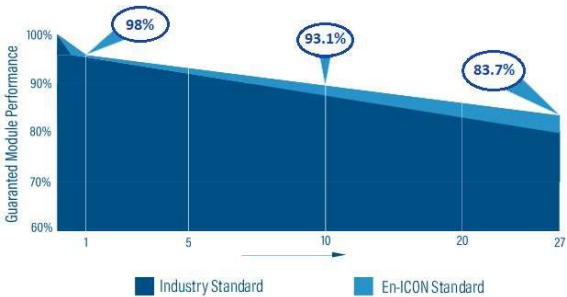
MONO PERC M10-144 Cell RSPLM144P545	Features	
<ul style="list-style-type: none"> Excellent Power Output with +ve Tolerance (up to 3%) Performance Warranty: Linear power warranty for 27 years with 2% for 1st year degradation and 0.55% from year 2 to year 27 12 Year Limited Product Warranty PID Resistance 	<ul style="list-style-type: none"> 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	Constructional Characteristics	Certifications
<ul style="list-style-type: none"> On-grid systems BIPV Solar farms Standalone (off-grid) systems Solar Pump 	<ul style="list-style-type: none"> Frame Glass EVA Cells Back sheet 	<ul style="list-style-type: none"> 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	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





Year	Industry Standard (%)	En-ICON Standard (%)
1	98%	98%
5	~95%	~95%
10	~91%	93.1%
20	~85%	~85%
27	~80%	83.7%

IS 14286:2010/
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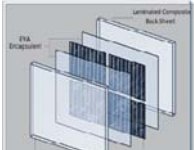
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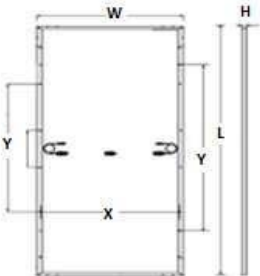
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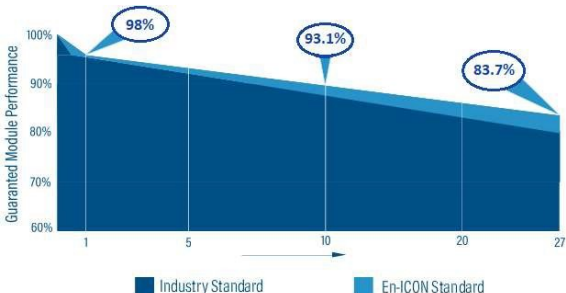
MONO PERC M10-144 Cell RSPLM144P550	Features	
<ul style="list-style-type: none"> Excellent Power Output with +ve Tolerance (up to 3%) Performance Warranty: Linear power warranty for 27 years with 2% for 1st year degradation and 0.55% from year 2 to year 27 12 Year Limited Product Warranty PID Resistance 	<ul style="list-style-type: none"> 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	Constructional Characteristics	Certifications
<ul style="list-style-type: none"> On-grid systems BIPV Solar farms Standalone (off-grid) systems Solar Pump 	<ul style="list-style-type: none"> Frame Glass EVA Cells Back sheet 	<ul style="list-style-type: none"> 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	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





Year	Industry Standard (%)	En-ICON Standard (%)
1	98.0	98.0
5	93.1	93.1
10	88.2	93.1
20	83.7	88.2
27	83.7	83.7

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:**
- 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.
 - For handling & installation instructions, refer RSPL Installation Manual.
 - Please read RSPL warranty documents thoroughly
 - 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.

+91-8800564525


info@ritikasytems.in

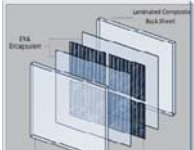
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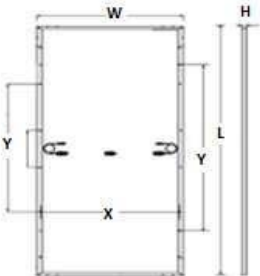
RSPL PV Modules are manufactured with the highest A grade materials and features best in class quality and performance. Our Meticulous product design and stringent process control ensures our modules deliver an exceptional high PV yield and stand the test of time.

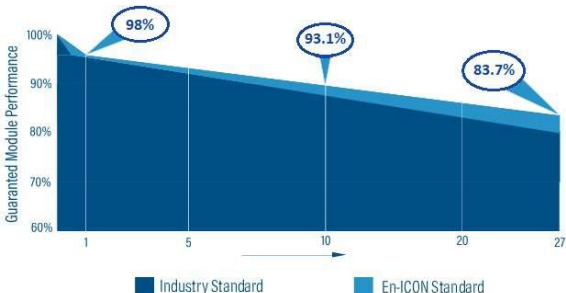
MONO PERC M10-144 Cell RSPLM144P555	Features	
<ul style="list-style-type: none"> Excellent Power Output with +ve Tolerance (up to 3%) Performance Warranty: Linear power warranty for 27 years with 2% for 1st year degradation and 0.55% from year 2 to year 27 12 Year Limited Product Warranty PID Resistance 	<ul style="list-style-type: none"> 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	Constructional Characteristics	Certifications
<ul style="list-style-type: none"> On-grid systems BIPV Solar farms Standalone (off-grid) systems Solar Pump 	<ul style="list-style-type: none"> Frame Glass EVA Cells Back sheet 	<ul style="list-style-type: none"> 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		
Mounting Hole CTC distance - vertical (Y)	1000 & 1400 mm		
Mounting Hole CTC distance - horizontal (X)	1091 mm		


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