
DATASHEET M10

Mono Perc 120 Cells




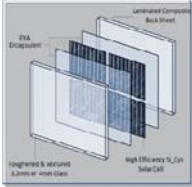
RITIKA[®]
Powering Lives since 1985

SOLAR PANEL MANUFACTURING UNIT
M10 MONO PERC/TOPCON SOLAR PANELS



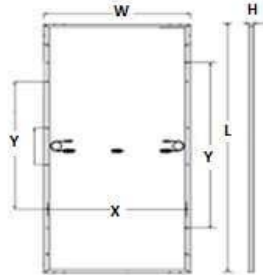
RSPL PV Modules are manufactured with the highest A grade materials and features best in class quality and performance. Our Meticulous product design and stringent process control ensures our modules deliver an exceptional high PV yield and stand the test of time.

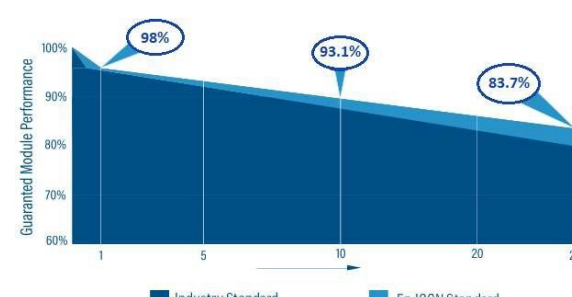
MONO PERC M10-120 Cell RSPLM108P420	Features	
<ul style="list-style-type: none"> Excellent Power Output with +ve Tolerance (up to 3%) Performance Warranty: Linear power warranty for 27 years with 2% for 1st year degradation and 0.55% from year 2 to year 27 12 Year Limited Product Warranty PID Resistance 	<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	RSPLM108P420		
Cell	Mono PERC		
Electrical Characteristics	UNIT	STC	NOCT
Power (Pmax)	W	420	316
Open Circuit Voltage (Voc)	V	40.71	38.00
Optimum Operating Voltage (Vmp)	V	33.42	31.19
Short Circuit Current (Isc)	A	13.42	10.81
Optimum operating Current (Imp)	A	12.57	10.13
Module Efficiency (η)%	%	19.41 %	
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	24 kg		
Module Dimension (L) x (W) x (H)	1908 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%)

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 - Please read RSPL warranty documents thoroughly
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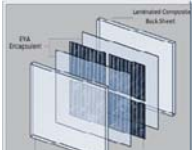
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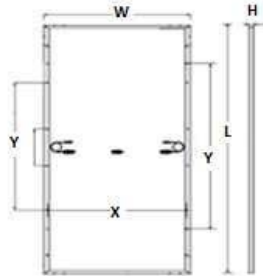
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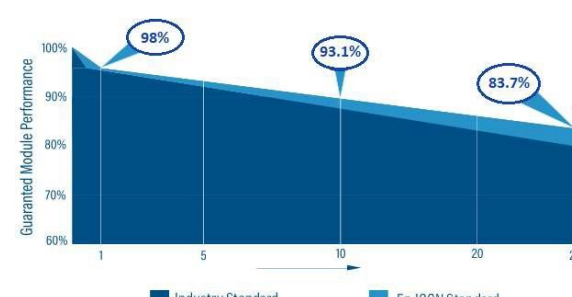
MONO PERC M10-120 Cell RSPLM108P425	Features	
<ul style="list-style-type: none"> Excellent Power Output with +ve Tolerance (up to 3%) Performance Warranty: Linear power warranty for 27 years with 2% for 1st year degradation and 0.55% from year 2 to year 27 12 Year Limited Product Warranty PID Resistance 	<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	RSPLM108P425		
Cell	Mono PERC		
Electrical Characteristics	UNIT	STC	NOCT
Power (Pmax)	W	425	320
Open Circuit Voltage (Voc)	V	40.75	38.04
Optimum Operating Voltage (Vmp)	V	33.46	31.23
Short Circuit Current (Isc)	A	13.46	10.85
Optimum operating Current (Imp)	A	12.71	10.24
Module Efficiency (η)%	%	19.64%	
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	24 kg		
Module Dimension (L) x (W) x (H)	1908 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%	93.1%
5	93.1%	93.1%
10	88.6%	93.1%
20	84.1%	83.7%
27	83.7%	83.7%

IS 14286:2010/
IEC 61215:2015,
IS/IEC 61730
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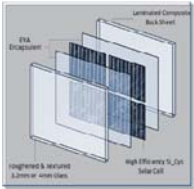
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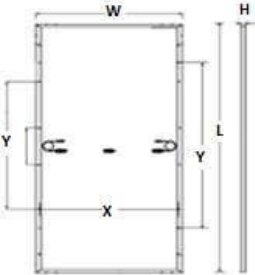
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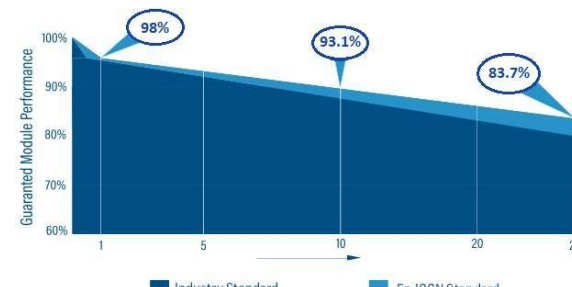
MONO PERC M10-120 Cell RSPLM120P430	Features	
<ul style="list-style-type: none"> Excellent Power Output with +ve Tolerance (up to 3%) Performance Warranty: Linear power warranty for 27 years with 2% for 1st year degradation and 0.55% from year 2 to year 27 12 Year Limited Product Warranty PID Resistance 	<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
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Specifications	RSPLM120P430		
Cell	Mono PERC		
Electrical Characteristics	UNIT	STC	NOCT
Power (Pmax)	W	430	324
Open Circuit Voltage (Voc)	V	40.79	38.07
Optimum Operating Voltage (Vmp)	V	33.51	31.28
Short Circuit Current (Isc)	A	13.51	10.89
Optimum operating Current (Imp)	A	12.84	10.35
Module Efficiency (η)%	%	19.87%	
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	24 kg		
Module Dimension (L) x (W) x (H)	1908 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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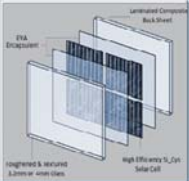
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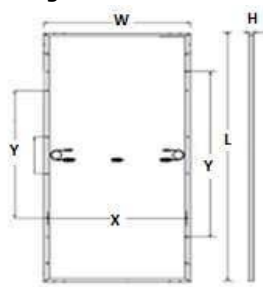
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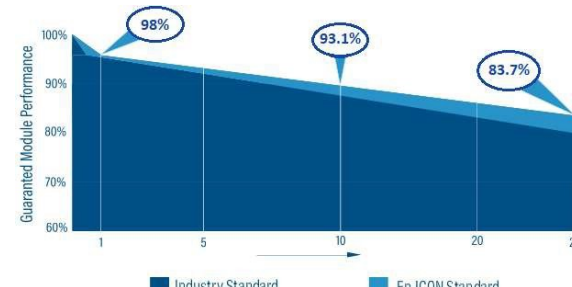
MONO PERC M10-120 Cell RSPLM120P435	Features	
<ul style="list-style-type: none"> Excellent Power Output with +ve Tolerance (up to 3%) Performance Warranty: Linear power warranty for 27 years with 2% for 1st year degradation and 0.55% from year 2 to year 27 12 Year Limited Product Warranty PID Resistance 	<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	RSPLM120P435		
Cell	Mono PERC		
Electrical Characteristics	UNIT	STC	NOCT
Power (Pmax)	W	435	327
Open Circuit Voltage (Voc)	V	40.91	38.19
Optimum Operating Voltage (Vmp)	V	33.61	31.37
Short Circuit Current (Isc)	A	13.62	10.97
Optimum operating Current (Imp)	A	12.95	10.44
Module Efficiency (η)%	%	20.10%	
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	24 kg		
Module Dimension (L) x (W) x (H)	1908 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	93.1%	93.1%
10	88.7%	93.1%
20	84.3%	93.1%
27	83.7%	93.1%

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



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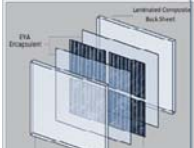
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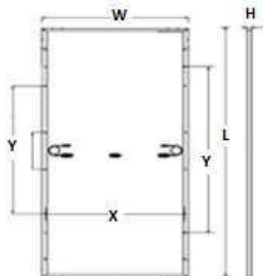
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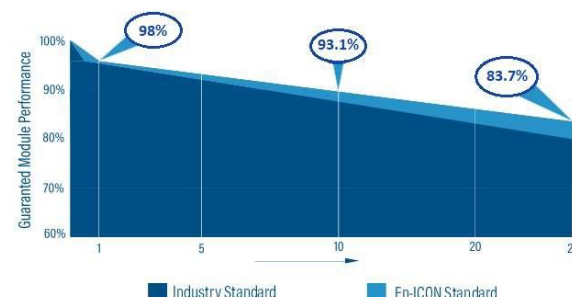
MONO PERC M10-120 Cell RSPLM120P440	Features	
<ul style="list-style-type: none"> Excellent Power Output with +ve Tolerance (up to 3%) Performance Warranty: Linear power warranty for 27 years with 2% for 1st year degradation and 0.55% from year 2 to year 27 12 Year Limited Product Warranty PID Resistance 	<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	RSPLM120P440		
Cell	Mono PERC		
Electrical Characteristics	UNIT	STC	NOCT
Power (Pmax)	W	440	331
Open Circuit Voltage (Voc)	V	41.02	38.29
Optimum Operating Voltage (Vmp)	V	33.72	31.47
Short Circuit Current (Isc)	A	13.73	11.06
Optimum operating Current (Imp)	A	13.05	10.52
Module Efficiency (η)%	%	20.3%	
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	24 kg		
Module Dimension (L) x (W) x (H)	1908 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/
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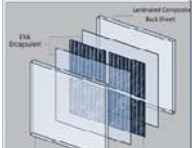
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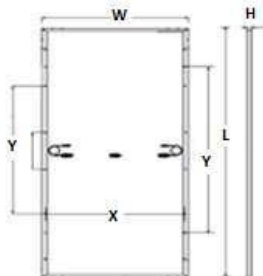
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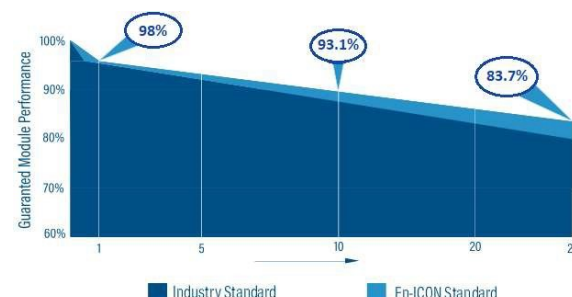
MONO PERC M10-120 Cell RSPLM120P445	Features	
<ul style="list-style-type: none"> Excellent Power Output with +ve Tolerance (up to 3%) Performance Warranty: Linear power warranty for 27 years with 2% for 1st year degradation and 0.55% from year 2 to year 27 12 Year Limited Product Warranty PID Resistance 	<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
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Specifications	RSPLM120P445		
Cell	Mono PERC		
Electrical Characteristics	UNIT	STC	NOCT
Power (Pmax)	W	445	335
Open Circuit Voltage (Voc)	V	41.10	38.36
Optimum Operating Voltage (Vmp)	V	33.84	31.59
Short Circuit Current (Isc)	A	13.79	11.11
Optimum operating Current (Imp)	A	13.16	10.60
Module Efficiency (η)%	%	20.57%	
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	24 kg		
Module Dimension (L) x (W) x (H)	1908 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,
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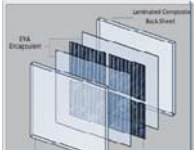
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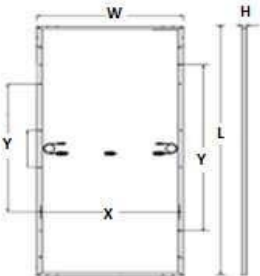
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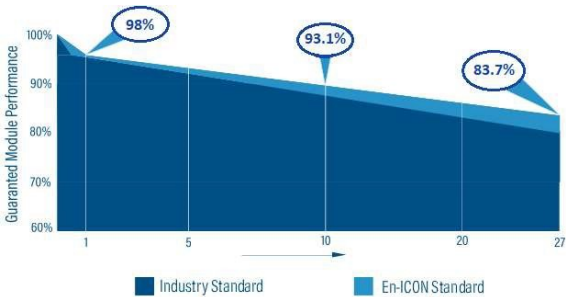
MONO PERC M10-120 Cell RSPLM120P450	Features	
<ul style="list-style-type: none"> Excellent Power Output with +ve Tolerance (up to 3%) Performance Warranty: Linear power warranty for 27 years with 2% for 1st year degradation and 0.55% from year 2 to year 27 12 Year Limited Product Warranty PID Resistance 	<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	RSPLM120P450		
Cell	Mono PERC		
Electrical Characteristics	UNIT	STC	NOCT
Power (Pmax)	W	450	339
Open Circuit Voltage (Voc)	V	41.18	38.44
Optimum Operating Voltage (Vmp)	V	33.95	31.69
Short Circuit Current (Isc)	A	13.85	11.16
Optimum operating Current (Imp)	A	13.26	10.68
Module Efficiency (η)%	%	20.80%	
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	24 kg		
Module Dimension (L) x (W) x (H)	1908 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%)

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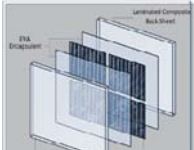
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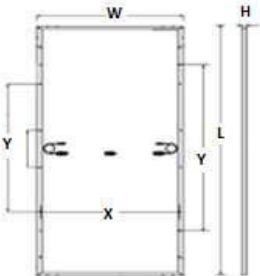
RSPL PV Modules are manufactured with the highest A grade materials and features best in class quality and performance. Our Meticulous product design and stringent process control ensures our modules deliver an exceptional high PV yield and stand the test of time.

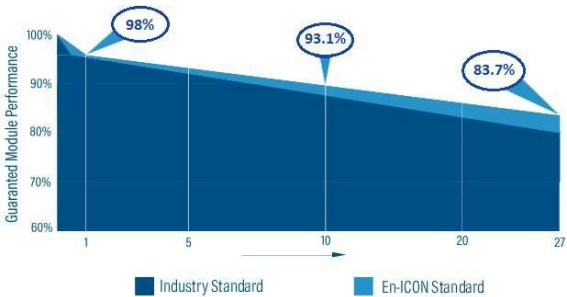
MONO PERC M10-120 Cell RSPLM120P455	Features	
<ul style="list-style-type: none"> Excellent Power Output with +ve Tolerance (up to 3%) Performance Warranty: Linear power warranty for 27 years with 2% for 1st year degradation and 0.55% from year 2 to year 27 12 Year Limited Product Warranty PID Resistance 	<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	RSPLM120P455		
Cell	Mono PERC		
Electrical Characteristics	UNIT	STC	NOCT
Power (Pmax)	W	455	342
Open Circuit Voltage (Voc)	V	41.33	38.58
Optimum Operating Voltage (Vmp)	V	34.06	31.79
Short Circuit Current (Isc)	A	13.93	11.22
Optimum operating Current (Imp)	A	13.36	10.77
Module Efficiency (η)%	%	21.03%	
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	24 kg		
Module Dimension (L) x (W) x (H)	1908 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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Compliance of Simulator readings with an accuracy of class AAA (±2%)

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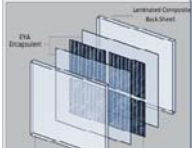
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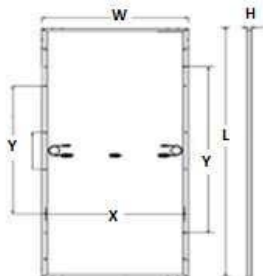
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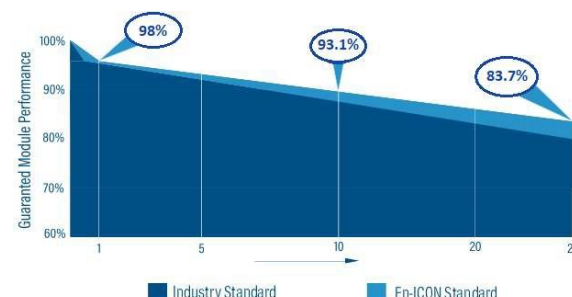
MONO PERC M10-120 Cell RSPLM120P460	Features	
<ul style="list-style-type: none"> Excellent Power Output with +ve Tolerance (up to 3%) Performance Warranty: Linear power warranty for 27 years with 2% for 1st year degradation and 0.55% from year 2 to year 27 12 Year Limited Product Warranty PID Resistance 	<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	RSPLM120P460		
Cell	Mono PERC		
Electrical Characteristics	UNIT	STC	NOCT
Power (Pmax)	W	460	346
Open Circuit Voltage (Voc)	V	41.48	38.72
Optimum Operating Voltage (Vmp)	V	34.18	31.90
Short Circuit Current (Isc)	A	14.01	11.29
Optimum operating Current (Imp)	A	13.47	10.85
Module Efficiency (η)%	%	21.26%	
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	24 kg		
Module Dimension (L) x (W) x (H)	1908 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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