
DATASHEET M10

Mono Perc 132 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 RSPLM132P500	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	RSPLM132P500		
Cell	Mono PERC		
Electrical Characteristics	UNIT	STC	NOCT
Power (Pmax)	W	500	376
Open Circuit Voltage (Voc)	V	45.59	42.55
Optimum Operating Voltage (Vmp)	V	38.35	35.80
Short Circuit Current (Isc)	A	13.93	11.22
Optimum operating Current (Imp)	A	13.04	10.51
Module Efficiency (η)%	%	21.05%	
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)	-0.208		
Temperature Co-efficient for power/°C (γ)	-0.230		
NOCT	45°C ± 2°C		
Mechanical Characteristics			
Weight	26 kg		
Module Dimension (L) x (W) x (H)	2094 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
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.

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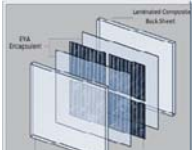
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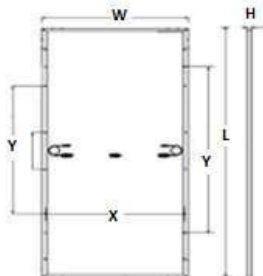
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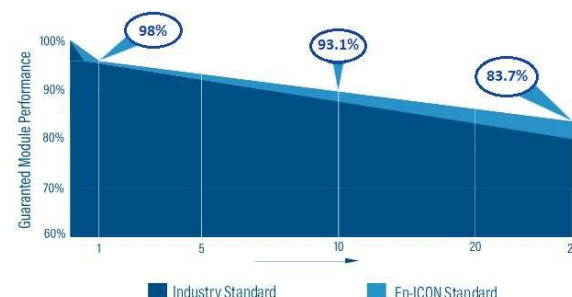
MONO PERC M10-132 Cell RSPLM132P510	Features	
<ul style="list-style-type: none"> Excellent Power Output with +ve Tolerance (up to 3%) Performance Warranty: Linear power warranty for 27 years with 2% for 1st year degradation and 0.55% from year 2 to year 27 12 Year Limited Product Warranty PID Resistance 	<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	RSPLM132P510		
Cell	Mono PERC		
Electrical Characteristics	UNIT	STC	NOCT
Power (Pmax)	W	510	384
Open Circuit Voltage (Voc)	V	45.85	42.80
Optimum Operating Voltage (Vmp)	V	38.71	36.13
Short Circuit Current (Isc)	A	14.07	11.34
Optimum operating Current (Imp)	A	13.18	10.62
Module Efficiency (η)%	%	21.47%	
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)	-0.208		
Temperature Co-efficient for power/°C (γ)	-0.230		
NOCT	45°C ± 2°C		
Mechanical Characteristics			
Weight	26 kg		
Module Dimension (L) x (W) x (H)	2094 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



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