

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

- 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

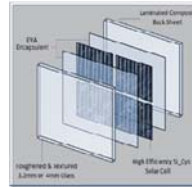


Applications

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

Constructional Characteristics

- Frame
- Glass
- EVA
- Cells
- Back sheet

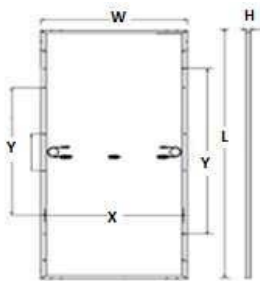


Certifications

- 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		RSPLM108P420		
Cell		Mono PERC		
Electrical Characteristics	UNIT	STC		NOCT
Power (P _{max})	W	420		316
Open Circuit Voltage (V _{oc})	V	40.71		38.00
Optimum Operating Voltage (V _{mp})	V	33.42		31.19
Short Circuit Current (I _{sc})	A	13.42		10.81
Optimum operating Current (I _{mp})	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 I _{sc} /°C (α)			0.0289	
Temperature Co-efficient for V _{oc} /°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 (O) (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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MONO PERC M10-120 Cell RSPLM108P425

- 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

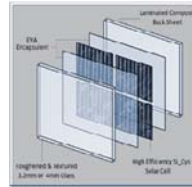


Applications

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

Constructional Characteristics

- Frame
- Glass
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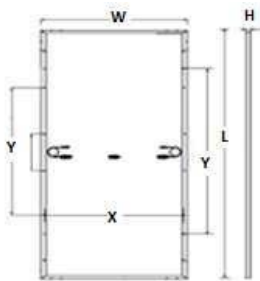


Certifications

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- 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



IS 14286:2010/
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MONO PERC M10-120 Cell RSPLM120P430

- 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

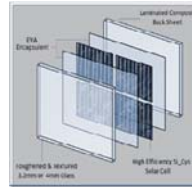


Applications

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

Constructional Characteristics

- Frame
- Glass
- EVA
- Cells
- Back sheet

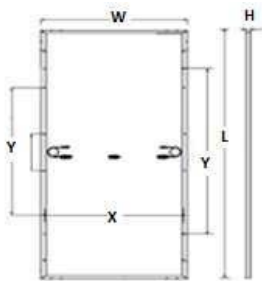


Certifications

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- ISO 45001: 2018

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,
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MONO PERC M10-120 Cell RSPLM120P435

- 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

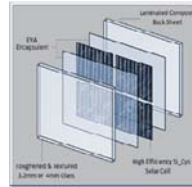


Applications

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

Constructional Characteristics

- Frame
- Glass
- EVA
- Cells
- Back sheet

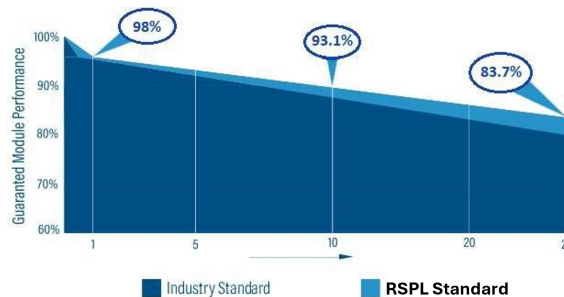
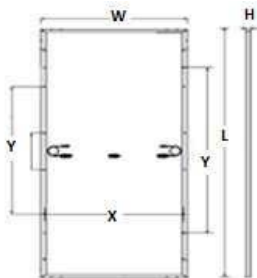


Certifications

- 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	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



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MONO PERC M10-120 Cell RSPLM120P440

- 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

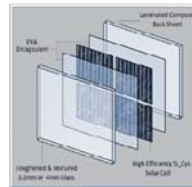


Applications

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

Constructional Characteristics

- Frame
- Glass
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- Back sheet

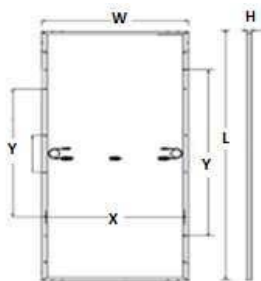


Certifications

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- 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



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MONO PERC M10-120 Cell RSPLM120P445

- 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

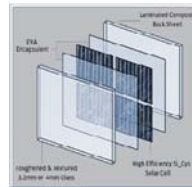


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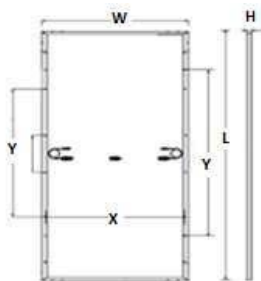


Certifications

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

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



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MONO PERC M10-120 Cell RSPLM120P450

- 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

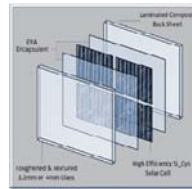


Applications

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

Constructional Characteristics

- Frame
- Glass
- EVA
- Cells
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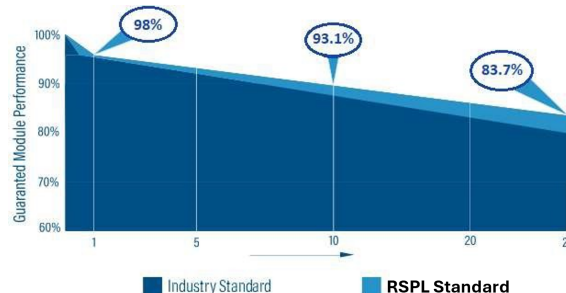
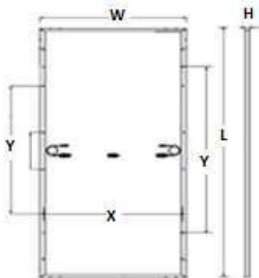


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- ISO 45001: 2018

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,
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MONO PERC M10-120 Cell RSPLM120P455

- 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

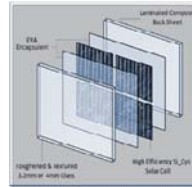


Applications

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

Constructional Characteristics

- Frame
- Glass
- EVA
- Cells
- Back sheet

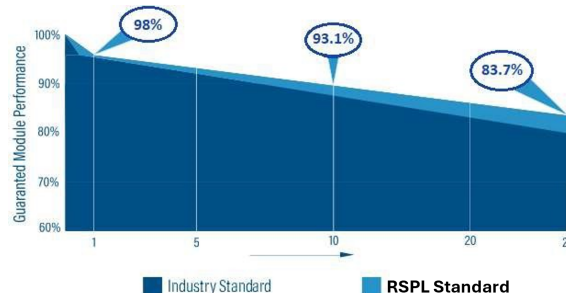
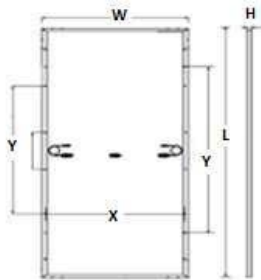


Certifications

- 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	RSPLM120P455			
Cell				
Electrical Characteristics	UNIT	Mono PERC		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



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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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 RSPLM120P460

- 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

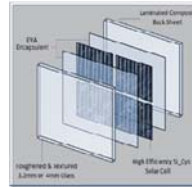


Applications

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

Constructional Characteristics

- Frame
- Glass
- EVA
- Cells
- Back sheet

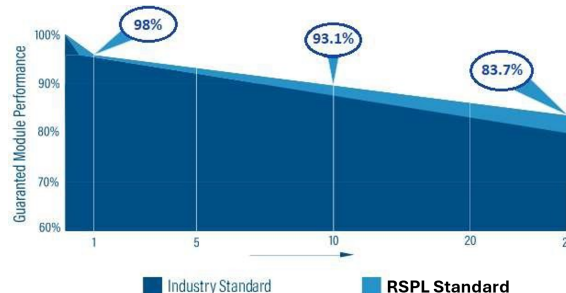
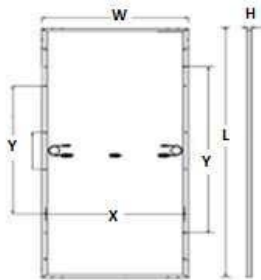


Certifications

- 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	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



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



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