
DATASHEET M10

Mono Perc 156 Cells




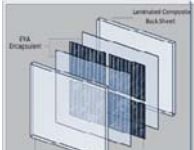
RITIKA[®]
Powering Lives since 1985

SOLAR PANEL MANUFACTURING UNIT
M10 MONO PERC/TOPCON SOLAR PANELS



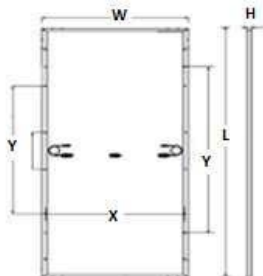
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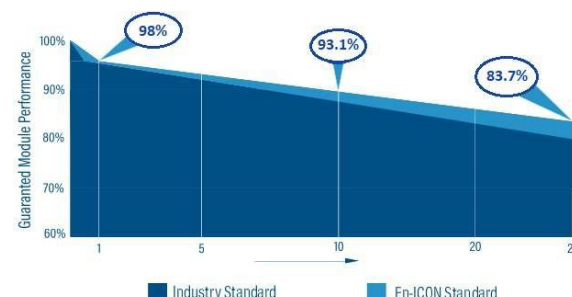
MONO PERC M10-156 Cell RSPLM156P560	Features	Certifications
<ul style="list-style-type: none"> Excellent Power Output with +ve Tolerance (up to 3%) Performance Warranty: Linear power warranty for 27 years with 2% for 1st year degradation and 0.55% from year 2 to year 27 12 Year Limited Product Warranty 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	RSPLM156P560		
Cell	Mono PERC		
Electrical Characteristics	UNIT	STC	NOCT
Power (Pmax)	W	560	421
Open Circuit Voltage (Voc)	V	52.7	49.19
Optimum Operating Voltage (Vmp)	V	43.6	40.70
Short Circuit Current (Isc)	A	13.49	10.87
Optimum operating Current (Imp)	A	12.85	10.35
Module Efficiency (η)%	%	20.03%	
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	30.7 kg		
Module Dimension (L) x (W) x (H)	2465 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






Guaranteed Module Performance

98% (Year 1), 93.1% (Year 10), 83.7% (Year 27)

Industry Standard vs En-ICON Standard

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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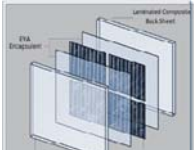
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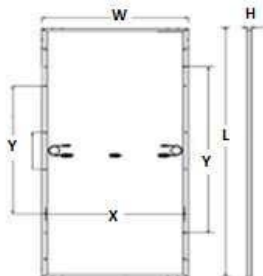
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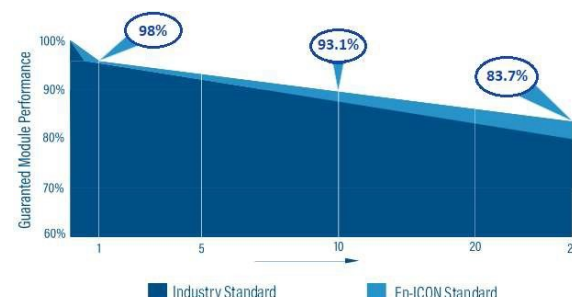
MONO PERC M10-156 Cell RSPLM156P565	Features	
<ul style="list-style-type: none"> Excellent Power Output with +ve Tolerance (up to 3%) Performance Warranty: Linear power warranty for 27 years with 2% for 1st year degradation and 0.55% from year 2 to year 27 12 Year Limited Product Warranty PID Resistance 	<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	RSPLM156P565		
Cell	Mono PERC		
Electrical Characteristics	UNIT	STC	NOCT
Power (P _{max})	W	565	425
Open Circuit Voltage (V _{oc})	V	52.8	49.28
Optimum Operating Voltage (V _{mp})	V	43.8	40.88
Short Circuit Current (I _{sc})	A	13.55	10.92
Optimum operating Current (I _{mp})	A	12.91	10.40
Module Efficiency (η)%	%	20.21%	
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	30.7 kg		
Module Dimension (L) x (W) x (H)	2465 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	88.2%	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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MONO PERC M10-156 Cell RSPLM156P570	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	RSPLM156P570		
Cell	Mono PERC		
Electrical Characteristics	UNIT	STC	NOCT
Power (Pmax)	W	570	429
Open Circuit Voltage (Voc)	V	52.9	49.38
Optimum Operating Voltage (Vmp)	V	44.0	41.07
Short Circuit Current (Isc)	A	13.6	10.96
Optimum operating Current (Imp)	A	12.96	10.44
Module Efficiency (η)%	%	20.39%	
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	30.7 kg		
Module Dimension (L) x (W) x (H)	2465 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

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

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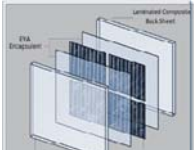
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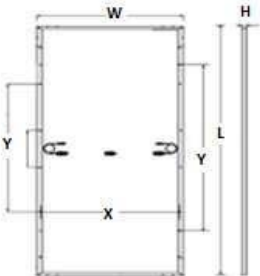
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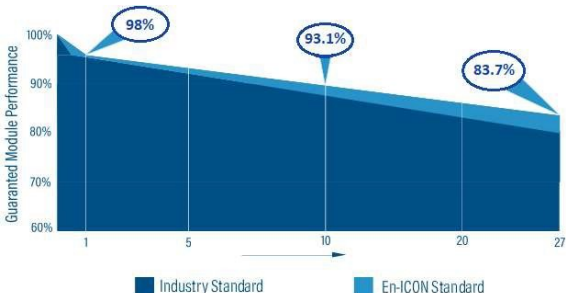
MONO PERC M10-156 Cell RSPLM156P575	Features	
<ul style="list-style-type: none"> Excellent Power Output with +ve Tolerance (up to 3%) Performance Warranty: Linear power warranty for 27 years with 2% for 1st year degradation and 0.55% from year 2 to year 27 12 Year Limited Product Warranty PID Resistance 	<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	RSPLM156P575		
Cell	Mono PERC		
Electrical Characteristics	UNIT	STC	NOCT
Power (Pmax)	W	575	433
Open Circuit Voltage (Voc)	V	53	49.47
Optimum Operating Voltage (Vmp)	V	44.2	41.26
Short Circuit Current (Isc)	A	13.69	11.03
Optimum operating Current (Imp)	A	13.01	10.48
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	30.7 kg		
Module Dimension (L) x (W) x (H)	2465 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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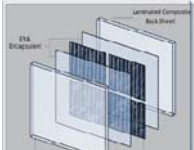
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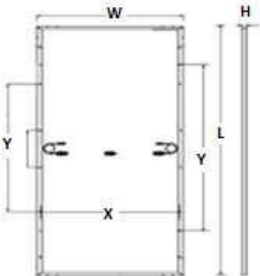
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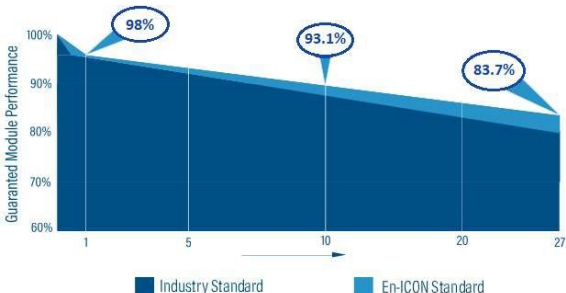
MONO PERC M10-156 Cell RSPLM156P580	Features	
<ul style="list-style-type: none"> Excellent Power Output with +ve Tolerance (up to 3%) Performance Warranty: Linear power warranty for 27 years with 2% for 1st year degradation and 0.55% from year 2 to year 27 12 Year Limited Product Warranty PID Resistance 	<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	RSPLM156P580		
Cell	Mono PERC		
Electrical Characteristics	UNIT	STC	NOCT
Power (Pmax)	W	580	436
Open Circuit Voltage (Voc)	V	53.1	49.56
Optimum Operating Voltage (Vmp)	V	44.4	41.44
Short Circuit Current (Isc)	A	13.77	11.10
Optimum operating Current (Imp)	A	13.07	10.53
Module Efficiency (η)%	%	20.75%	
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	30.7 kg		
Module Dimension (L) x (W) x (H)	2465 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






Guaranteed Module Performance (%)

Industry Standard vs En-ICON Standard

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



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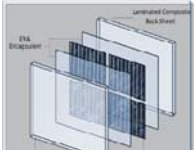
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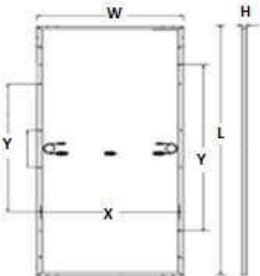
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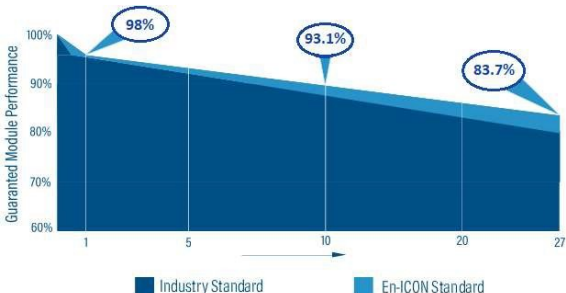
MONO PERC M10-156 Cell RSPLM156P585	Features	
<ul style="list-style-type: none"> Excellent Power Output with +ve Tolerance (up to 3%) Performance Warranty: Linear power warranty for 27 years with 2% for 1st year degradation and 0.55% from year 2 to year 27 12 Year Limited Product Warranty PID Resistance 	<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	RSPLM156P585		
Cell	Mono PERC		
Electrical Characteristics	UNIT	STC	NOCT
Power (Pmax)	W	585	440
Open Circuit Voltage (Voc)	V	53.2	49.66
Optimum Operating Voltage (Vmp)	V	44.6	41.63
Short Circuit Current (Isc)	A	13.87	11.18
Optimum operating Current (Imp)	A	13.12	10.57
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	30.7 kg		
Module Dimension (L) x (W) x (H)	2465 x 1134 x 35 mm		
Mounting Hole (Oblong) (I x J)	9 x 14 mm		
Mounting Hole CTC distance - vertical (Y)	1000 & 1400 mm		
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Frame Design





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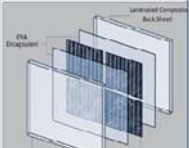
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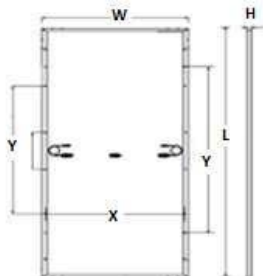
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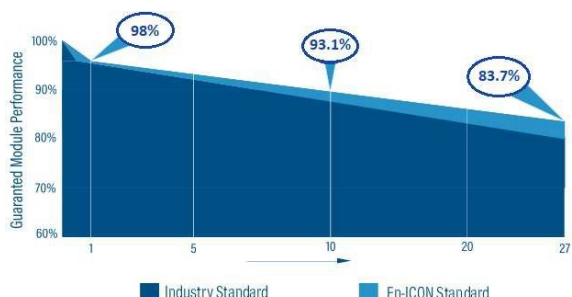
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Applications	Constructional Characteristics	Certifications
<ul style="list-style-type: none"> On-grid systems BIPV Solar farms Standalone (off-grid) systems Solar Pump 	<ul style="list-style-type: none"> Frame Glass EVA Cells Back sheet 	<ul style="list-style-type: 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	RSPLM156P590		
Cell	Mono PERC		
Electrical Characteristics	UNIT	STC	NOCT
Power (Pmax)	W	590	444
Open Circuit Voltage (Voc)	V	53.3	49.75
Optimum Operating Voltage (Vmp)	V	44.8	41.82
Short Circuit Current (Isc)	A	13.94	11.23
Optimum operating Current (Imp)	A	13.17	10.61
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	30.7 kg		
Module Dimension (L) x (W) x (H)	2465 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/
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%)

- 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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