

Solar Embedded Roof (SER)	Panel	MXPOWER
Models Electrical Data	SER	
Rated Power (Wp)	205	
Maximum Voltage (Vmp)	25.4	
Maximum Current (Imp)	8.14	
Open Circuit Voltage (Voc)	30.46	
Short Circuit Current (Isc)	8.81	
Module Efficiency (%)	6.9	
Temperature Coefficients	SER	
Tc of Open Circuit Voltage	-0.31 % /0 0	:
Tc of Short circuit Current	0.052%/0 0	5
Tc of Power	-0.41%/0 C	
NOCT	47	
Mechanical Data	SER	
Length x Width x Height	3000 x 1016 x	50
No of Cells	48	
Mechanical Load Test	5400Mpa	
Weight	27 Kgs	
Maximum Series Fuse Rating	15	
Connectors	4 mm	
Dimensions	2400	
		70
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MxP 12XX (XX = 10)



TECHNICAL DATA MxP12XX





12 Years Limited Product Waranty



- 25 Years of Linear Power Guarantee

High Performance Modules with efficiency up to 9.53%





- The pannels are constructed with low iron, textured high light trans
- Reinforced anodized Aluminium Frame
- Pre drilled frame for easy mounting
- IP65 & IP67 rated Junction Connector
- Solar MC4 compatible connector



Application

Solar Home Light

Constructional

Cells

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Characteristics

Certification

IEC 61215 & 61730

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TECHNICAL DATA **MxP12XX**

THIS DATASHEET IS APPLICABLE FOR: MxP12XX		XX=10 or 12
Electrical Characteristics		
Rated Power (Wp)	10	12
Maximum Voltage (Vmp)	17.51	17.52
Maximum Current (Imp)	0.56	0.68
Open Circuit Voltage (Voc)	21.5	12.7
Short Ciruit Current (Isc)	0.65	0.78
Module Efiency (%)	9.53 %	11.43 %

Temperature Coecients			
Tc of Open Circuit Voltage	-0.45%/°C	-0.45%/°C	
Tc of Short Circuit Voltage	-0.35%/°C	-0.35%/°C	
Tc of Power	-0.41%/°C	-0.41%/°C	
Maximum System Voltage	600V	600V	
NOCT	-0.45%/°C	-0.45%/°C	
Temperature Range	-40°C to +85°C	-40°C to +85°C	

Mechanical Data.		
Length X Width X Height	355X265X35	355X265X40
Mounting Holes Y (mm)	150	150
Mounting Holes X (mm)	235	235
Module Weight (kg)	1.26	1.26
Application Class	Class A	Class A
Protection Class	Class II	Class II
Superstrate	High transmission low iron tempered glass	High transmission low iron tempered glass
Number of Cells	36	36
Cell Encapsulant	EVA	EVA
Back Sheet	Composite Film	Composite Film
Frame	Anodized aluminium frame with twin wall profile	Anodized aluminium frame with twin wall profile
Mechnicale Load Test	5400Pa	5400Pa
Maximum Series Fuse Rating	5A	5A

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Cable

Connectors

Dimensions in mm





IV Curves



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MxP06XX 37-45





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THIS DATASHEET IS APPLICABLE FOR: MxP12XX

TECHNICAL DATA **MxP12XX**

XX=37 - 45

Electrical Characteristics				
Rated Power (Wp)	30	40	45	
Maximum Voltage (Vmp)	17.72	17.82	17.95	
Maximum Current (Imp)	1.69	2.24	2.5	
Open Circuit Voltage (Voc)	21.9	21.5	21.5	
Short Ciruit Current (Isc)	1.8	2.41	2.7	
Module Efiency (%)	12.03 %	12.95 %	12.95 %	

Temperature Coecients				-
Tc of Open Circuit Voltage	-0.45%/°C	-0.45%/°C	-0.45%/°C	
Tc of Short Circuit Voltage	-0.35%/°C	-0.35%/°C	-0.35%/°C	
Tc of Power	-0.41%/°C	-0.41%/°C	-0.41%/°C	
Maximum System Voltage	600V	600V	600V	
NOCT	-0.45%/°C	-0.45%/°C	-0.45%/°C	
Temperature Range	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	

Mechanical Data.			
Length X Width X Height	550X350X35	670X440X35	670X440X35
Mounting Holes Y (mm)	200	200	200
Mounting Holes X (mm)	315	640	640
Module Weight (kg)	2.8	3.6	3.6
Application Class	Class A	Class A	Class A
Protection Class	Class II	Class II	Class II
Superstrate	High transmission low iron tempered glass	High transmission low iron tempered glass	High transmission low iron tempered glass
Number of Cells	36	36	36
Cell Encapsulant	EVA	EVA	EVA
Back Sheet	Composite Film	Composite Film	Composite Film
Frame	Anodized aluminium frame with twin wall profile	Anodized aluminium frame with twin wall profile	Anodized aluminium frame with twin wall profile
Mechnicale Load Test	5400Pa	5400Pa	5400Pa

10A

Mechnicale Load Test Maximum Series Fuse Rating Cable

Connectors

Dimensions in mm







10A



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10A

MxP1275





MXPOWER

THIS DATASHEET IS APPLICABLE FOR: MxP1275

TECHNICAL DATA MxP1275

Electrical Characteristics.		
Rated Power (Wp)	75	
Maximum Voltage (Vmp)	18.42	

Maximum Current (Imp)	4.08
Open Circuit Voltage (Voc)	21.52
Short Ciruit Current (Isc)	4.29
Module Effifiency (%)	13.05 %
Temperature Coefficients	
Tc of Open Circuit Voltage	-0.45%/°C
Tc of Short Circuit Voltage	-0.35%/°C
Tc of Power	-0.41%/°C
Maximum System Voltage	1000V
NOCT	-0.45%/°C
Temperature Range	-40°C to +85°C
Mechanical Data.	
Length X Width X Height	790X670X40
Mounting Holes Y (mm)	300
Mounting Holes X (mm)	635
Module Weight (kg)	6.15
Application Class	Class A
Protection Class	Class II
Superstrate	High transmission low iron
	tempered glass
Number of Cells	36
Cell Encapsulant	EVA
Back Sheet	Composite Film
Frame	Anodized aluminium freme with
	twin wall profile
Mechnicale Load Test	5400Pa
Maximum Series Fuse Rating	15A
Cable	

Connectors

Dimensions in mm





Performance Warranty



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MxP12100-12150



TECHNICAL DATA *MxP12100 – 12150*



12 Years Limited Product Waranty



25 Years of Linear Power Guarantee

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High Performance Modules with efficiency up to 13.54%







- The pannels are constructed with low iron, textured high light trans
- Reinforced anodized Aluminium Frame
- Pre drilled frame for easy mounting
- IP65 & IP67 rated Junction Connector

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Application

On- grid system BIPV Solar Street Light

Standalone (off- grid) Systems

Constructional Characteristics

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Frame Blass EVA

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Certification

IEC 61215 & 61730 IEC 61701 (Salt Mist Test) MNRE (India) Certified ISO 9001- 2008

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TECHNICAL DATA *MxP12100-12150*

THIS DATASHEET IS APPLICABLE FOR: MxP12100-12150

Electrical Characteristics			
Rated Power (Wp)	100	150	
Maximum Voltage (Vmp)	17.62	18.2	
Maximum Current (Imp)	5.68	8.34	
Open Circuit Voltage (Voc)	21.52	22.5	
Short Ciruit Current (Isc)	5.98	8.67	
Module Effifiency (%)	13.30%	13.54%	
Temperature Coefficients			

Tc of Open Circuit Voltage	-0.45%/°C	-0.45%/°C
Tc of Short Circuit Voltage	-0.35%/°C	-0.35%/°C
Tc of Power	-0.41%/°C	-0.41%/°C
Maximum System Voltage	1000V	1000V
NOCT		

Temperature	Range
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Mechanical Data.		
Length X Width X Height	1000x670x40	1475x670x40
Mounting Holes Y (mm)	550	550
Mounting Holes X (mm)	635	635
Module Weight (kg)	7.51	9
Application Class	Class A	Class A
Protection Class	Class II	Class II
Superstrate	High transmission low iron tempered glass	High transmission low iron tempered glass
Number of Cells	36	
Cell Encapsulant	EVA	
Back Sheet	Composite Film	
Frame	Anodized aluminium freme with twin wall profile	
Mechnicale Load Test	5400Pa	
Maximum Series Fuse Rating	15A	

Cable

Connectors

Dimensions in mm





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1 YEAR

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Application

Standalone (off- grid)

Systems

Constructional **Characteristics**

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EVA

Cells Back Sheet

Certification

ISO 9001- 2008

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TECHNICAL DATA **MxP60cXXX**

THIS DATASHEET IS APPLICABLE FOR: MxP60cXXX XXX=250 - 270 Electrical Characteristics Rated Power (Wp) 250 31.01 Maximum Voltage (Vmp) 8.07 Maximum Current (Imp) 37.95 Open Circuit Voltage (Voc) 8.51 Short Ciruit Current (Isc) Module Efiency (%) 15.15 Temperature Coecients Tc of Open Circuit Voltage -0.31%/°C Tc of Short Circuit Voltage -0.052%/°C Tc of Power -0.41%/°C Maximum System Voltage 1000V 44°C <u>+</u> 2°C NOCT -40°C to +85°C Temperature Range Mechanical Data..... Length X Width X Height 1655X985X40 900 Mounting Holes Y (mm) 955 Mounting Holes X (mm) Module Weight (kg) 18 **Application Class** Class A **Protection Class** Class II High transmission low iron tempered glass Superstrate Number of Cells 60 Cell Encapsulant EVA Back Sheet Composite Film Frame Anodized aluminium freme with twin wall profile 5400Pa Mechnicale Load Test Maximum Series Fuse Rating 15A

Cable

Connectors

Dimensions in mm





IV Curves



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MxP72c(XXX = 300-315)TECHNICAL DATA **MX**POWER *MxP72cXXX* xxx=300 - 315 Excellent Power Output with +ve Tolerance upto 3Wp 12 Years Limited Product Waranty 25 25 Years of Linear Power Guarantee High Performance Modules with efficiency more than 15.67% All the modules are PID resistant • The pannels are constructed with low iron, textured high light trans • Reinforced anodized Aluminium Frame • Pre - drilled frame for easy mounting • IP65 & IP67 rated Junction Connector • Solar MC4 compatible connector Application Constructional Certification Ċ. Å Characteristics IEC 61215 & 61730 On- grid system

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Standalone (off- grid)

Systems

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Cells

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THIS DATASHEET IS APPLICABLE FOR: MxP72cXXX

TECHNICAL DATA MxP72cXXX

XXX=300 - 315

305	310
36.7	38.1
8.32	8.14
45.4	45.7
8.7	8.81
15.65	16.00
-0.31%/°C	-0.31%/°C
0.052%/°C	0.052%/°C
-0.41%/°C	-0.41%/°C
1000V	1000V
44°C <u>+</u> 2°C	44°C <u>+</u> 2°C
-40°C to +85°C	-40°C to +85°C
1980X985X40	1980X985X40
	305 36.7 8.32 45.4 8.7 15.65 -0.31%/°C 0.052%/°C -0.41%/°C 1000∨ 44°C ± 2°C -40°C to +85°C 1980×985×40

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Mounting Holes Y (mm)	1000	1000
Mounting Holes X (mm)	955	955
Module Weight (kg)	22.5	22.5
Application Class	Class A	Class A
Protection Class	Class II	Class II
Superstrate	High transmission low iron tempered glass	High transmission low iron tempered glass
Number of Cells	72	72
Cell Encapsulant	EVA	EVA
Back Sheet	Composite Film	Composite Film
Frame	Anodized aluminium frame with twin wall profile	Anodized aluminium frame with twin wall profile
Mechnicale Load Test	5400Pa	5400Pa
Maximum Series Fuse Rating	15A	15A
Cable	4mm ²	4mm ²
Connectors	MC4	MC4

Dimensions in mm









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