



FOR US, SOLAR POWER IS THE NEED OF THE HOUR



Here are a few reasons why you should choose MX Power Solar for wellness of all.



1. **Manufacturing setup:** We have an in-house facility to manufacture the Solar Photovoltaic Module and other LED Solar Products.



MNRE Partnership: We have partnered with Ministry of New and renewable Energy (MNRE) to spread the cause of solar power and sustainable energy resources.



. **Reliable team:** Our dedicated team with consolidated experience of more than 50 years is capable of handling large solar projects.



4. **Excellent service:** We are committed to offer world-class service that surpasses your expectations with:

- Easy accessibility
- Individual and personalized attention
- A unique system for service with complete process flow
- Convenient and prompt service



5. **Technical credibility:** Our team of technical experts has hands-on experience about the technical aspects and can find innovative ways to offer green solutions with solar power.



6. **Trusted name:** We are one of the few firms to have the experience of establishing multiple plants above 100KW in Maharashtra alone.



Affordable cost: We innovate at every step to make our products most affordable to maximum number of people.



. **Environmentally conscious firm:** We are very ethical and quality conscious organization that promotes renewable sources of energy.



 A range of offerings: MX Power Solar addresses the specific needs of corporate, government, commercial establishments and residences.





Module Testing with Sun Simulator



Cell Testing

Solar Photovoltaic Modules:

Making the most of the bright energy

We produce high-efficiency mono and polycrystalline silicon photovoltic modules in our production facility at Pune, India. With our state-of-the-art manufacturing equipment from leading suppliers, robust in-house processes and systems to drive manufacturing

excellence and a global supply chain and sales and distribution network, we are the preferred choice for products and services with 'Made in India' brand at a global scale.

We prefer to use our own modules for the solar plants that we execute as we believe that we sell the power and not just the modules. We assure that the quality of material used in the modules ensures best performance with minimum degradation over the years and also ensures faster payback with enhanced monetary benefits.



HIGHER OUTPUT OF MODULE POWER by reducing cell to module power loss



Up to + 2.5 Wp POSITIVE POWER OUTPUT TOLERANCE GUARANTED ensuring better ROI



EXCELLENT LOW LIGHT RESPONSE



Designed for very HIGH AREA EFFICIENCY ideally suited for roof-top and ground -mounted applications



Extremely RELIABLE PRODUCT suiting all environment conditions



Extremely NARROW POWER BINNING TOLERANCE to reduce current mismatch loss in single string



Quality And Sefety

- 25 years of linear power output warranty Certified with IEC 61215, IEC 61730-I & IEC 61730-II by TUV
- Rigorous quality control meeting the highest international standards
- Certifide for salt mist corrosion resistance severity IV



Applications

- On-grid large scale utility systems
- Off-grid residential systems
- Solar pumping applications
- On-grid rooftop residential, Commercial and Industrial rooftop applications

Some of our key projects



100kw Lupin, Aurangabad



30kw asbestos rooftop at Udupi



30Kw sheet metal at Pune



30Kw elevated power plant in Pune



10kw natural inclination

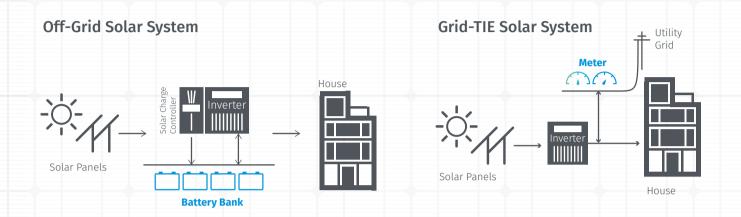
Operation and Maintenance:

- To ensure the optimum power generation through the solar power plant installed by our customer which has a life of 20-25 yrs.
- We also provide the Operation & Maintenance to these plants at very reasonable cost which is not more than 2% of the plant cost
- Operation & Maintenance covers the breakdown calls, preventive maintenance calls & cleaning of the solar panels through our efficient service ERP system

EPC:

A Hassle-free & Complete Service Oering

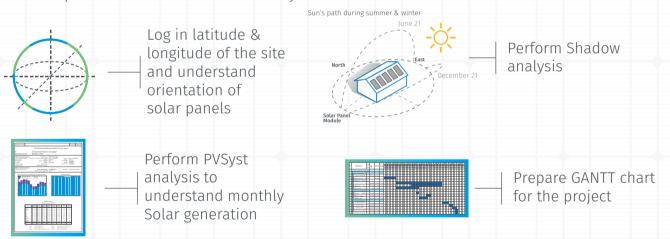
EPC is a combination of multiple services that simplify your life to the core. Comprising of Engineering, Procurement and Construction, the end-to-end service brings best quality products to you without any stress.



Engineering:

Identification of site for solar installation

The first phase includes the detailed analysis of the site like:



Procurement:

We Procure the best quality material worldwide. We Manufacture the Solar modules and ensure that other bought in items like invertors, AC/DC protections devices, cables are procured from the worlds best top ten suppliers.

Construction:

Our experienced team constructs the solar plant as per schedule of the GANTT chart, which ensures the timely completion of the project to begin power generation in time and save costs.

Conventional Solar on Roof



Solar Embedded roof







TECHNICAL DATA Embedded Solar roof

This datasheet is applicable for: MxP12150/ MxP60c250

Electrical Data		
Rated Power (Wp)	150	250
Maximum Voltage (Vmp)	18.2	31.01
Maximum Current (Imp)	8.34	8.1
Open Circuit Voltage (VoC)	22.5	37.95
Short Circuit Voltage (Isc)	8.67	8.51
Module Efficiency (%)	7.30%	9.20%

Temperature Coeficients		
Tc of Open Circuit Voltage	-0.45%/C	-0.45%/C
Tc of Short Circuit Current	-0.35%/C	-0.35%/C
Tc of Power	-0.41%/C	-0.41%/C
Maximum System Voltage	1000V	1000V
NOCT	-0.45%/C	-0.45%/C
Temperature Range	-40C to + 85C	-40C to + 85C

Mechanical Data						
Length x Width x Height	2000 x 1030 x 45	2000 x 1335 x 45				
Module Weight (Kg)	12	27				
Application Class	Cla	ss A				
Protection Class	Cla	ss II				
Superstrate	High transmission low iron tempered gl					
Cells	36	60				
Cell Encapsulant	EVA					
Back Sheet	Composite Film					
Frame	MS sheet with PP powder coating 1mm thick with required bends to ma it compatible to conventinal metal roof sheets					
Mechnical Load Test	5400 Pa					
Maximum Series Fuse Rating	Series Fuse Rating 15 A					

SOLAR PRODUCTS: Solar Power To Brighten Everyday Of Your Life. MxPower Solar manufactures a wide range of solar products to utilize the power of Sun to maximum capacity. From home lights, street lights, LED lanterns, pumps to luminaires, we offer you an opportunity to choose sustainable sources of energy for your daily needs and simplify your life in every way possible!



Solar Home Light:

- Solid-state with high shock/vibration resistant
- Maintenance free, easy installation
- Long lifetime 50,000+ hrs (5+ years)
- Low power consumption with high intensity
- Bus, shuttle, railcar passenger interiors
- Focused reading and task lighting
- Can be used for Interior design, retail store displays, closet illumination, cove lighting



Solar LED Lantern:

- High power Osram LED
- ISO Certified
- · Zero Maintenance cost
- MNRE/MEDA approved

Specifications

		General									
Model	MXLCS3	MXLBS3	MXLBS5	MXLBB5	MXLBB10						
Туре	Cone	Barrel	Barrel	Barrel	Barrel						
Daily backup/ Autonomy	3Hrs./ 3days	3Hrs./ 3days	5Hrs./ 3days	4Hrs./ 4days	8Hrs./ 3days						
Light output at 1 Ft.	65 lumens	90 lumens	90 lumens	169 lumens	169 lumens						
Light output at 5 Ft.	2 lumens	8 lumens	8 lumens	14 lumens	14 lumens						
	Configuration										
PV Module	6V 3Wp	6V 3Wp	6V 5Wp	12V 5Wp	12V 10Wp						
Battery	6V 4.5Ah	6V 4.5Ah	6V 4.5Ah	12V 7Ah	12V 7Ah						
No. of LED's	3	6	6	9	9						
		Electrical									
LED Driver	Separatrate LED Driver IC with the efficiency of >95%										
Solar Charge controller	Efficie	nt charge con	Microcontroller based								
Solar Charging			Takes place even when switch is OFF								
Display / Indications	Batte	ery low & Cha	Battery Status & Charging								
Protections	Battery deep discharging, Battery overcharging, Short Circuit										
Mobile Charging Option	No	No	Yes	No Yes							
	S	hipping info)								
Gross Weight	1.2 Kg	1.2 Kg	1.2 Kg	3.2 Kg	3.2 Kg						



Solar Street Lights:

- Microcontroller based solar charge controller
- Protections: Battery reversal, PV panel reversal, no load, overload, battery deep discharge & battery overcharge

Specifications:

	G	eneral						
Model	MXSL07	MXSL10	MXSL18	MXSL24				
	Config	uration						
Luminaire	7.2W	10W	18W	24W				
Light output	900 Lumens	900 Lumens						
PV Module	12V 37Wp	12V 40Wp	12V 74Wp	12V 100Wp				
Battery	12V 26Ah(SMF)	12V 40Ah	12V 50Ah	12V 75Ah				
Battery Box	Acid proof, Flame proof PP container MS box with powder							
Solar Charge Controller	5 Amp max, inside the luminaire 10Amp Max, Inside the Battery E							
Erection Pole	78mm dia 4.5 mtr. Length M.S. Pole (Galvanised/ PU Coated)							
	ı	Electrical						
Life of LED's		>50,0	000 Hrs					
Protection	Batte	ry deep dischar	ge and reverse po	larity				



Solar Pumps:

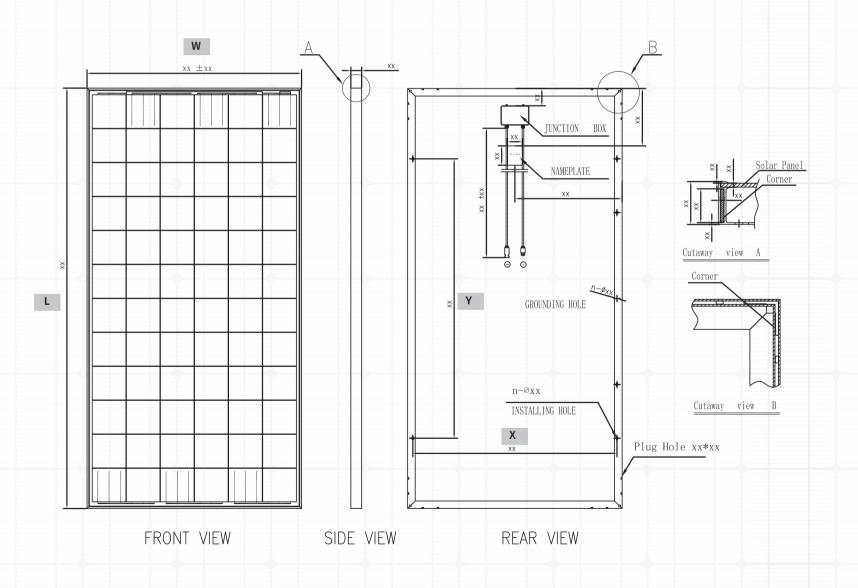
- This solar inverter with MPPT VF drive will give maximum torque even at minimum sunlight
- There is no need of any battery, directly connect the panel to the inverter and the output of the inverter can be connected to a three phase motor
- DSP based intelligent Maximum Power Point Tracking (MPPT) will give 35% more energy
- VF drive will give constant torque for wide range of intensity
- Built in Dry Run protection
- Built in Lightening Arrestor

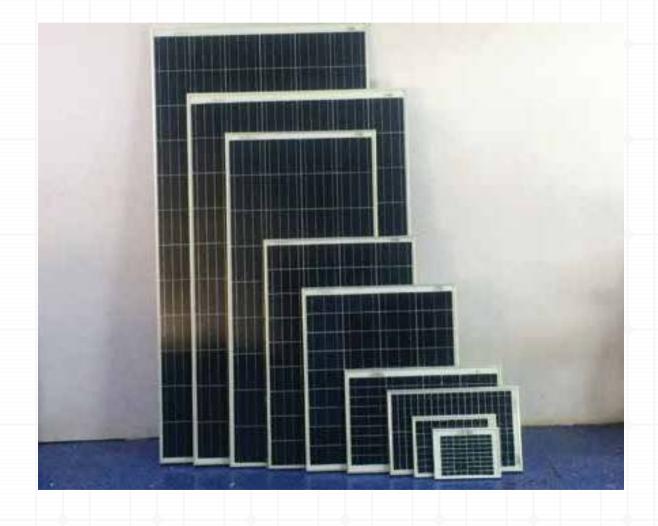
Model No.	MxPO	WER-2	MxF	POWER-5	MxPOWER-10		
Power rating	1 HP	2HP	3HP	5HP	7.5HP	10HP	
Input voltage Voc (PV DC Voltage)	200V-750V	350V-750V	500V-750V	650V-750V	800V-1000V	800V-1000V	
Input Current Imax	5A	6A	7A	8A	15A	20A	
PV Wattage	750W-1200W	1500W-2400W	2250W-3600W	3500W-6000W	5600W-9400W	7500W-12000W	
O/P Voltage 3 Ph Vac	240V-440V	240V-440V	240V-440V	240V-440V	240V-440V	240V-440V	
O/P Frequency	0-60Hz	0-60Hz	0-60Hz	0-60Hz	0-60Hz	0-60Hz	
Best water flow @	40-50 Hz	40-50 Hz	40-50 Hz	40-50 Hz	40-50 Hz	40-50 Hz	
MPPT Tracking @ every	10 ms	10 ms	10 ms	10 ms	10 ms	10 ms	
MPPT Tracking efficiency	^{>} 98%	> 98%	^{>} 98%	^{>} 98%	^{>} 98%	^{>} 98%	
Cumulative Discharge with MPPT	1.3 Times	1.3 Times	1.3 Times	1.3 Times	1.3 Times	1.3 Times	
Head Range In Mtrs.	100	120	200	250	300	325	
Ambient Temp.	45°C	45°C	45°C	45°C	45°C	45°C	
Humidity	95%	95%	95%	95%	95%	95%	
Noise Level @ 1 Mtr.	* 50dB	< 50dB	< 50dB	⁴ 50dB	< 50dB	* 50dB	
Enclosure Type	IP 55	IP 55	IP 55	IP 55	IP 55	IP 55	
Cooling System	Convection	Convection	Convection	Convection	Convection	Convection	
Natural Effective Pumping Hours	*7-9	*7-9	*7-9	*7-9	*7-9	*7-9	
Pump Selection			Any 3 Pha	se AC Pump			
Compatibility with AC Power Supply		External	automatic change ove	er available for AC/DC o	peration		
Display - 4 Line LCD		PV Arra	y Voltage, Current, Wa	attage, Frequency, O/P \	/oltage		
Protection	Reverse po	larity, Short circuit, O	ver current, Over volt	age, Lightening, Dry run	(sensor less), Over te	mperature	
Data Collection		RS484 port fo	r instant data collecti	on and can be accessed	via net work.		



SUSTAINABLE PRODUCTS & A HAPPY LIFE FOR EVERYONE

We believe that infusing innovation in our everyday life can transform the way we look at future. That is why MxPower Solar endeavours to discover, develop and deliver specific products addressing the unique needs of corporate, government, commercial establishments or residences.





SOLAR PANEL TECHNICAL DATA

Models	MxP 06XX (X	P 06XX (XX = 03 or 05)			45)	MxP1275	MxP12100	MxP12150	MxP60cXXX (XXX = 250 - 270)		MxP 72cxxx (xxx=300 - 305)			
Electrical Data														
Rated Power (Wp)	3	5	10	12	37	40	45	75	100	150	250	270	300	305
Maximum Voltage (Vmp)	8.64	8.95	17.51	17.52	17.72	17.82	17.95	18.42	17.62	18.2	31.01	32.01	36.6	36.7
Maximum Current (Imp)	0.35	0.56	0.56	0.68	2.1	2.24	2.5	4.08	5.68	8.34	8.07	8.47	8.2	8.32
Open Circuit Voltage (Voc)	10.8	10.8	21.5	21.7	21.9	21.5	21.5	21.52	21.52	22.5	37.95	38.67	45.2	45.4
Short Circuit Current (Isc)	0.37	0.61	0.65	0.78	2.3	2.41	2.7	4.29	5.98	8.67	8.51	9.05	8.6	8.7
Module Efficiency (%)	9.53%	9.53%	9.53%	11.43%	12.03%	12.95%	12.95%	13.05%	13.30%	13.54%	15.15	15.35	15.40	15.65
Temperature Coefficients														
Tc of Open Circuit Voltage	-0.45%/°C	-0.45%/°C	-0.45%/°C	-0.45%/°C	-0.45%/°C	-0.45%/℃	-0.45%/°C	-0.45%/°C	-0.45%/°C	-0.45%/°C	-0.31 % /℃	-0.31 % /°C	-0.31 % /℃	-0.31 % /℃
Tc of Short circuit Current	-0.35%/°C	-0.35%/°C	-0.35%/℃	-0.35%/℃	-0.35%/°C	-0.35%/°C	-0.35%/°C	-0.35%/°C	-0.35%/°C	-0.35%/℃	0.052%/℃	0.052%/℃	0.052%/℃	0.052%/℃
Tc of Power	-0.41%/°C	-0.41%/°C	-0.41%/℃	-0.41%/°C	-0.41%/°C	-0.41%/℃	-0.41%/°C	-0.41%/°C	-0.41%/°C	-0.41%/°C	-0.41%/°C	-0.41%/°C	-0.41%/°C	-0.41%/°C
Maximum System Voltage		600V									1000 '	/		
NOCT			-0.45% /°C					<u>'</u>		$44^{\circ}\text{C} \pm 2^{\circ}\text{C}$ $44^{\circ}\text{C} \pm 2^{\circ}\text{C}$			44°C ± 2°C	44 °C ± 2 °C
Temperature Range	-40°Cto + 85°C										11.0=10			
Temperacare Nange								10 000 000						
Mechanical Data														
Length x Width x Height	355 x 265 x 4	_	0 355 x 265 x 4	_	40 670 x 440 x 3	_	35 670 x 440 x 3	_	_	_	1655 x 985 x 40	-	1980 x 985 x 4	
Mounting Holes (Y) mm		140		150		200		300	550		550 900		1000	
Mounting Holes (x) mm		175		235		640		635	635	635		955		9 <u>5</u> 5
Module Weight (Kg)	1.26	1.26	1.26	1.26	3.6	3.6	3.6	6.15	7.51	9	18	18	22.5	22.5
Application Class								Class A						
Protection Class								Class II						
Superstrate							High trans	mission low iro	n tempered glas	SS				
No of Cells	18		36								60	72		
Cell Encapsulant		EVA								12				
Back Sheet								Composite Fil	m					
							Apadizad alu			rofilo				
Frame Mechnicale Load Test							Allouizeu alu		with twin wall p	ronte				
Maximum Series Fuse Rating			5 A			10 A		5400 Pa			15 A			
						1 1 1					107.		4 mm ²	4 mm ²
Cable													I 4 mm [∠]	4 [[][[]-

Contact Us:

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