

SINCE 1980

MASSIMO[®] SOLAR



TUBULAR, SOLAR, INVERTERS,
AUTOMOTIVE, E-RICKSHAW,
TWO-WHEELER, GOLF-CART BATTERIES



45 Years of
Powering Lives

23 Countries
For Exports

25 Years of
Manufacturing

50 Lacs Installed
Capacity

03 Factories

18 Million
Happy Customers

18 Branch
Offices

1.2K Happy
Employees

27 States

15K Dealers
Pan India

07 UTs

Powerful Journey

Deepak Mittal Ji started battery business in Vijayawada.



1980

Establishment of lead refining, alloying & oxide manufacturing.



2000



Manufacturing unit set-up for lead acid battery with vision to scale on international standards.

Brand Massimo - launched



2013



Expansion begins; Pan India, SAARC, Middle-East, Africa.

2017



Legend actor Dharmendra as first brand ambassador of Massimo.

Ace cricketer - Rohit Sharma as brand ambassador of Massimo.



2019



Fully automatic new plant spread over 1 Lakh sq.ft. facility with EMT technology.

2022



Pan India expansion strengthens, on-site service network, dedicated sales & service professionals; launching inverters; launching complete solar solutions.

PWM Off Grid Solar Inverter Series 900 VA to 2200 VA



Key Features:



**Real Time Clock (RTC)
Technology**

**Premium Pure
Sine Wave**



**User Friendly
LCD Display**

**Smarter and
Faster Charging**



PWM Solar PCU			
Model Name	SunOn 1175	SunOn 1875	SunOn 2350
System Rating	900 VA	1500 VA	2200 VA
Nominal Battery Voltage (Vdc)	12V	24V	24V
Output Waveform	Pure Sine Wave		
Switching Element	MOSFET		
SOLAR PV INPUT			
Technology	PWM		
Charge controller rating (Amps.)	50A		
Input voltage range (Vmp)	15-18V	30- 42 V	
Maximum input voltage (Voc)	25V	50V	
Maximum Solar Penal Wp	850 W	1650 W	2050 W
OUTPUT			
Battery discharge current @ full load	56 ± 1 Amp.	50 ± 1 Amp.	80 ± 1 Amp.
BATTERY			
Battery charging through mains + (NC)	13.0 ± 1.0A	13.0 ± 1.0A	15.0 ± 1.0A
Battery charging through mains + (HC)	17.0 ± 1.0A	17.0 ± 1.0A	20.0 ± 1.0A
Dimension (LxWxH in MM)	330x325x185	405x370x260	405x370x260

As a process of continuous improvement, the specification are subject to change without notice.

PWM Off Grid Solar Inverter Series 2.5 KVA to 5 KVA



Key Features:



Real Time Clock (RTC) Technology

Premium Pure Sine Wave



User Friendly LCD Display

Smarter and Faster Charging



Run Submersible Pump

PWM Solar PCU			
Model Name	SunOn 3000	SunOn 4000	SunOn 5500
System Rating	2500VA	3500VA	5000VA
Nominal battery voltage (Vdc)	24V	48V	48V
Output waveform	Pure Sine Wave		
Switching element	MOSFET		
SOLAR PV INPUT			
Technology	PWM		
Charge controller rating (Amps.)	50A		
Input voltage range (Vmp)	30- 42 V	60 - 84 V	
Maximum input voltage (Voc)	50V	100V	
Maximum solar penal Wp	2200 W	3300 W	4400 W
OUTPUT			
Run Submersible pump	Submersible pump 1 HP*	Run 1.5 Ton Inverter AC	
Battery discharge current @ full load	100 ± 2 Amp.	58 ± 1 Amp.	83 ± 1 Amp.
BATTERY			
Battery charging through mains + (NC)	17.0 ± 1.0Amp	15 Amp ± 1 Amp	15 Amp ± 1 Amp
Battery charging through mains + (HC)	24.0 ± 1.0Amp	20 Amp ± 1 Amp	20 Amp ± 1 Amp
Dimension (LxWxH in MM)	390X360X245	400X370X460	510x370x550

As a process of continuous improvement, the specification are subject to change without notice.

MPPT Off Grid Solar Inverter Series 5KVA TO 15KVA



Key Features:



Real Time Clock (RTC) Technology

Premium Pure Sine Wave



User Friendly LCD Display

Smarter and Faster Charging



Advanced Interleaved MPPT Technology



Capable to Take Load



MPPT POWER CONDITIONING UNIT			
Model Name	SunOn + 5500M	SunOn + 10120M	SunOn + 15240M
System Rating(Va)	5350	10000	15000
DC Voltage	48	120	240
Main Mode Charging Current	18A/24A	12A/16A	12A/16A
Bulb Load (Wattage)	4280	8000	12000
Battery Current @ Full LOAD	100 Amp	75 Amp	55 Amp
Charge Controller Type	SINGLE INPUT - INTERLEAVED MPPT		
Max. Input Solar Current	40 Amp DC		
Input Volatge Range (Vmpp)	68V to 150V	170 to 340 V	340V-440V
MPPT Charge Controllar Rating	105 A	84 A	63A
Maximum Input Voltage (Voc)	195V	400V	550V
Maximum Solar Penal Wp	4950 to 5360 Wp	9850 to 11550 Wp	14750 to 16500
Protection Class	IP20		
Standard	BIS, IS16221 (Part2) : 2015/IEC62109-2:2011		
Dimension (LxWxH in MM)	510x370x550	640X395X565	710*380*550

As a process of continuous improvement, the specification are subject to change without notice.

Grid Tie Solar Inverter Series

3KW to 10KW



Key Features:



Maximum Utilization
of PV Capacity

Reduce Electricity
Bill for 25 Years



Monitor Live Power Through
User Friendly Display

Switch to
Clean Energy



User Friendly Web and Mobile
App Monitoring

Data Sheet				
	Single Phase (3KW- 5 KW)		Three Phase (5 KW/10 KW)	
Model	SPGS MASSIMO GTI 3KW 1Ph 5G PRO+	SPGS MASSIMO GTI 5KW 1Ph 5G PRO+	SPGS MASSIMO GTI 5KW 3Ph 5G PRO+	SPGS MASSIMO GTI 10KW 3Ph 5G PRO+
System Capacity	3 KW	5 KW	5 KW	10 KW
Max Peak DC Input Power	3.3KW	6KW	6KW	12KW
Max. DC I/P (Vdc)	550Vdc		1000 Vdc	
Max. MPPT I/P Current	16 Amp			
MPPT Short Circuit Current	20/22Amp			
MPPT Tracking Voltage (Vdc)	70-500Vdc		200-1000Vdc	
Min. Start Voltage	80V dc	100V Dc		
Number of MPPT Trackers				One
Strings per MPPT Trackers				One
Output (AC)				
Rated output power	3 KW	5 KW	5 KW	10 KW
Rated Grid Voltage	230V(140V-300V)		380-400(300-500V)	
Nominal Grid Freq. (Hz)	50Hz/60Hz(47-52Hz)/(57-62Hz)		50Hz/60Hz	
Max. output Current AC	13 A	21 A	7.2A	14.5A
AC Connection (With PE)	P+N+E		3P+N+E	
THDI(%)	<3% (At Rated Power)		<3% (At Rated Power)	
Output Factor(%)	0.8 Leading....1...0.8 Lagging		0.8 Leading....1...0.8 Lagging	
Efficiency				
Max. Conversion Eff.(%)	98		98	
Max. Euro Efficiency (%)	97.5		97.5	
Protection				
Anti- Islanding Protection	Yes Integrated		Yes Integrated	
Insulation Resistance Detection	Yes Integrated		Yes Integrated	
Residual Current Monitoring	Yes Integrated		Yes Integrated	
Over Voltage Protection	Yes Integrated		Yes Integrated	
DC Switch	Optional		Inbuilt	
Surge Protection	MOV/SPD/Filters		MOV/SPD/Filters	
General Data				
Dimensions (W*H*D)mm	297*223*117mm	395*328*154 mm	425*355*160mm	425*351*200mm
Weight (Kg)	4.7 Kg	10 Kg	13.7Kg	
Noice Emission (db)	<30db		<30db	
Display	LED with LCD Display		LED with LCD Display	
DC Connection Type	MC-4		MC-4	
AC Connection Type	Plug in Connector/ Wire Cables		Plug in Connector	
.	WiFi/ GPRS/ RS485		WiFi/ GPRS/ RS485	
Cooling Method	Natural Convection		Natural Convection /Smart Fan Cooling	
Operating Ambient	(-25 C - +60°C)		-25 C - +60°C	
Relative Humidity	0% - 100%		0% - 100%	
Max. Operating Altitude(m)	2000(>2000 Derating)		2000(>2000 Derating)	
Protection Class	IP65		IP65	
Night Stand By Power Consumotion (w)	<1		<1	
Standard Warranty	10 Year*		10Year*	

BIS ,IEC 62109 -1/2, IEC 61727, IEC 61683, IEC 60068, IEC 62116, IEC 61000 EMC

***Note** - All specification are subject to change without notice due to continuous up gradation in Modules Wp capacity

Solar Tubular Batteries

SOLAR POWER SAVINGS EVERY HOUR



Technical Specifications

Solar Series	Model	Battery Ah	Warranty* (R + P)	Container
Solmax	SOLMAX 100	100 Ah	60+40*	TALL TUBULAR
	SOLMAX 135	135 Ah	60+40*	TALL TUBULAR
	SOLMAX 150	150 Ah	60+40*	TALL TUBULAR
	SOLMAX 200	200 Ah	60+40*	TALL TUBULAR
Solton	MSOL 40	40 Ah	36+36*	SHORT TUBULAR
	MSOL 75	75 Ah	36+36*	SHORT TUBULAR
	MSOL 120	120 Ah	36+36*	TALL TUBULAR
	MSOL 150	150 Ah	36+36*	TALL TUBULAR
	MSOL 180	180 Ah	36+36*	TALL TUBULAR
	MSOL 200	200 Ah	36+36*	TALL TUBULAR
	MSOL 230	230 Ah	36+36*	TALL TUBULAR



Made with High-Grade Materials



Novel Sealed Container Design



Highest Testing Standards



Spill Proof Tray



SOLAR POWER
SAVINGS
EVERY HOUR

Solar Panel Series 110, 210, 550 Wp

SOLAR POWER
SAVINGS EVERY HOUR



Next Generation
Panel



Anti Reflection
Coated Glass



One of the Most
Trusted Solar Company



Suitable for
All Environment
Conditions



Excellent Low
Light Response

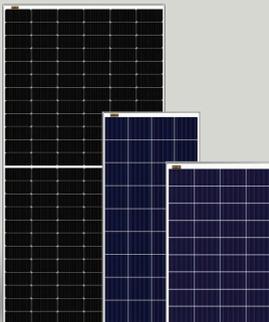


Reduces Carbon
Emission

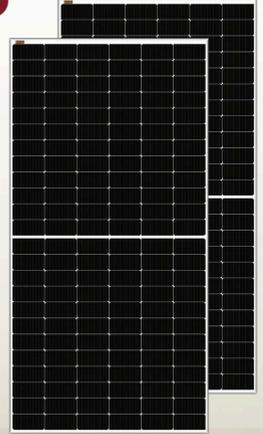
Technical Specifications

Electrical data @STC 110 W- 550 W	Poly crystalline	Mono crystalline	Mono PERC crystalline
Model	MSP12-110 Wp	MSM12-210 Wp	MSM12-550 Wp
Nominal maximum power (Pmax)	110	210	550
Rated module voltage (V)	12	12	24
Optimum operating voltage Vmp(V)	20.1V	19.54V	42.02V
Optimum operating current Imp(A)	4.99A	10.82A	13.06A
Open circuit voltage Voc(V)	23.09V	22.78V	50.62V
Short circuit current Isc(A)	5.20A	13.86A	13.98
Module Eff(%)	≥ 16%	≥ 20%	≥ 21.33%
Maximum system voltage(V)	600V		1500V
Junction Box	Box Rating 20A, Protection Class IP65 (2 Bypass diodes of 10 Amps each)		Ip68 Slipt JB, 3 diodes
*STC: Irradiance 1000 W/m ² , Cell temperature 25 °C, Air Mass AM 1.5 according to EN 60904-3. Average efficiency			
Mechanical specifications			
Dimensions [L*W*T]mm	905MM x 670MM x 30MM	1495MM x 670MM X 30MM	2278X1134X35mm
IP rating	IP65	IP65	IP67
Solar cells	36	36	Mono PERC crystalline- M10 (144 pcs half cut)
Cable	N/A		350mm, 4mm ²
Mechanical load strenght	5400 Pa(Snow Load), 2400 Pa (Wind Load)		
Frame	Silver Matt Finished Anodized frame, Anodizing Coating Thickness ≥ 14 μm		Silver Anodized Aluminium Profile
Permissible operating conditions			
Operrating temperature	-40 °C To 85 °C		
Warranty and certifications			
Product warranty	10 year product warranty		
Performance	25 years linear performance warranty		

As a process of continuous improvement, the specifications are subject to change without prior notice.



Black Pearls Series Mono Perc - 144 Cells 550 Wp DCR



Linear Performance Warranty

Product Warranty 10+15 Years: Material & Processing.
First year Degradation Upto - 2.5%
Linear Power output: 2-25 Annual degradation - 0.55%

Key Features:



Advanced Technology

MBB - Multi Busbar (10BB) /
Halfcut MONOPERC cells /
Ga Doped Wafers



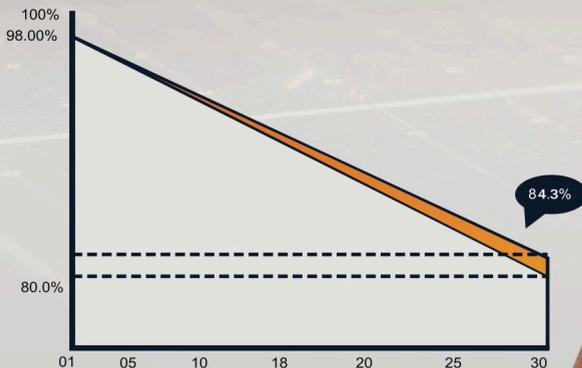
Extended Wind and Snow load Tests

Certified to withstand:
wind load (2400 Pascal) and
snow load (5400 Pascal).

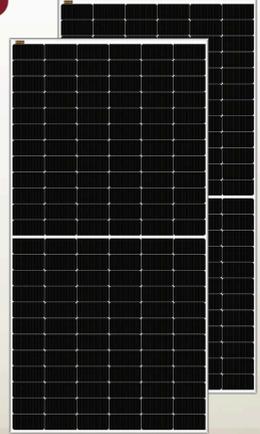


Current Sorting

To minimize the current
mismatch losses to maximize
system power output.



N - Type **Topcon** Black Opal Series Mono Perc N-Type - **144 Cells** **570 Wp** DCR



Linear Performance Warranty

Product Warranty 10+15 Years: Material & Processing.
First year Degradation Upto - 2.5%
Linear Power output: 2-25 Annual degradation - 0.55%

Key Features:



High Module Conversion Efficiency

Module efficiency up to 23.0% achieved through advanced cell technology and manufacturing process.



Advanced Technology

MBB - Multi Busbar (16BB) / Halfcut MONOPERC cells / Ga Doped Wafers



Positive Tolerance Cell Output

Guaranteed 0~+4.99 Wp positive tolerance to ensure power output.



Excellent Weak Light Performance

Advanced glass and surface texturing allow for excellent performance in low-light environment.



Extended Wind and Snow load Tests

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



Excellent PID Resistance

Excellent Anti-PID performance guarantee limited power degradation and certified for up-to 288 Hrs.



Withstanding Harsh Environment

Reliable quality leads to a better sustain ability even in harsh environment like desert, farm and coastline, ammonia.



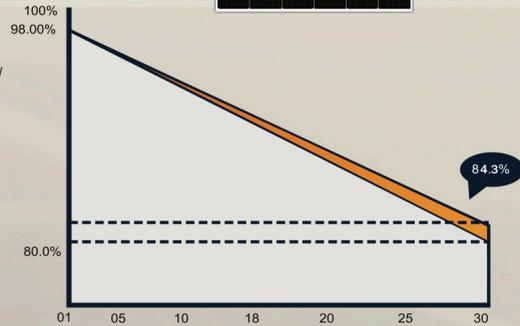
Rigorous Testing Criteria

100% EL inspection ensuring defect-free modules.



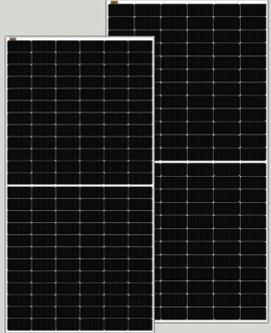
Current Sorting

To minimize the current mismatch losses to maximize system power output.



Solar Module Specification

Electrical Data Performance



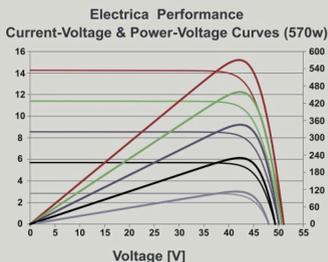
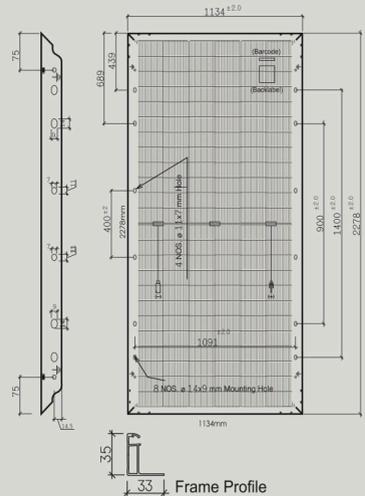
Conditions	Unit	STC
Peak Power Pmax(0 ~+ 4.99)Wp	(Wp)	570
Maximum voltage, Vmpp	(V)	43.58
Maximum current, Impp	(A)	52.10
Open circuit voltage, Voc	(V)	13.8
Short circuit current, Isc	(A)	13.83
Module Efficiency(%)	(%)	≥ 20.07

Operating Temperature(C)	-40°C~+85°C
Maximum system voltage	1500 VDC
Maximum series fuse rating	25A
Power tolerance	0~+3%
Temperature coefficients of Pmax	-0.35%/°C
Temperature coefficients of Voc	-0.28%/°C
Temperature coefficients of Isc	-0.048%/°C
Nominal Operating cell temperature (NOCT)	45 ± 2 °C
Fire Safety	Class-C
Application	Class-A
Safety Class	Class II

STC: Irradiance 1000 W/m² module temperature 25° °C, Am=1.5; **NOCT:** Irradiance 800 W/m², ambient temperature 20°C, Am=1.5, Wind speed 1m/s. Average power reduction of 4.5% at 200 W/m² as per IEC 60904-1. Measuring Uncertainty +/- 3%

Module Mechanical Data

Specification	Data
Cell Type	Half Cut- PERC Monocrystalline, 144 Cells
Dimensions	2278 x 1134 x 35mm
Weight	29 Kgs
Front Cover	3.2 mm ARC Tempered Glass
Backsheet	Composite Film
Frame Material	Silver Anodized Aluminium Profile, (black frame on request)
Junction Box	Ip68 Slipt JB, 3 diodes
Cable	350mm, 4mm ²
Connectors	MC4 Compatible Connector IEC/UL Cerfied



Solar PV Module Half Cut Bifacial Mono PERC 550 Wp Non DCR



Premium Grade A Cells
For superior performance and durability.

HIGH PERFORMANCE GUARANTEE!



25 years
performance
warranty



**Multi
Bus Bar**

Key Features:



Ideal For Rooftop Installations



High Power



Better Shading Tolerance

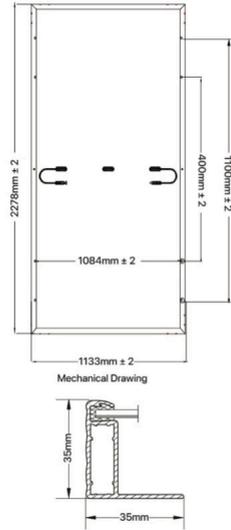


Excellent Temperature Performance



Technical Specifications

Electrical Data *STC		Dimension
Model Type	Gallium 550	
Maximum Power Pmax (W)	550	
Maximum Power Voltage Vmp (V)	42.74	
Maximum Power Current Imp (A)	12.89	
Open Circuit Voltage Voc (V)	49.60	
Short Circuit Current Isc (A)	13.72	
Module Efficiency (%)	21.35%	
Cell Temperature 25°C STC; Irradiance at 1000W/m, Air Mass AM 1.5		
Temperature Ratings		
Temperature Coefficient of Isc (Isc)	+0.048%/°C	
Temperature Coefficient of Voc (Voc)	-0.270%/C	
Temperature Coefficient of Pmax (Pmp)	-0.350%/°C	
Nominal Operating Cell Temperature (NOCT)	45°C±2°C	
Operating Parameters		
Maximum System Voltage	VDC 1500V	
Operating Temperature	-40°C±85°C	
Maximum Series Fuse	30A	
Mechanical Data		
Solar Cell Type	Mono Perc	
Number of Cell	144 Cells (12x6) (12x6)	
Number of Bus bar	10BB	
Module Dimensions	2278mmx1133mmx35mm	
Weight	29 Kg	
Front Glass	AR-coating toughened glass, 3.2 mm	
Frame	Black/Silver Anodized Aluminium	
J-Box	Split Junction Box (IP68)	
Cable	400 mm, 4Sqm	
Connector	MC4 IP68 compatible	
Maximum Test Load, Push/ Pull	5400Pa/2400Pa	
Packing Configuration		
Retail Packing	2 Modules	
Commercial Packing	28 Modules	



*Installation instruction must be followed. See the installation manual or contact our technical service department for further information on approved installation.
 *The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement, Zunax Energy Products LLP. reserves the right to make any adjustment to the information described here in at any time without notice.
 Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described here in.

Charge Controller

SCC12V10A, SCC24V20A



Key Features:



Protection against overcharge and reverse current

USB port charge your Mobile, Tablets etc. directly without using adapter



Automatic voltage selection 12/24V

SOLAR CHARGE CONTROLLER

Model Name	SSC12V10A	SSC24V20A
Charge Controller Rating (Amp.)	10A	20A
Technology	Analogue	Micro controller
System Voltage	12V	12/24V
Maximum Solar Panel (Wp)	165W	550W
Maximum Solar Panel Voltage	25V	50V
Dimensions (LxWxH) in mm	115mm*115*37mm	192mm*180mm*75mm

Technical Parameters are subject to change without any prior notice

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**FASTER
CLAIM
SETTLEMENT**



Toll Free : 1800 120 5676



MASSIMO[®]
SOLAR | INVERTERS | BATTERIES

POWER SERV

Promise of Care



Download App From PlayStore



Company Toll Free Number

18001205676

Call Between 10:00 AM to 6:30 PM
for complaint registration



We're Live on



7680083831

Product Query / Complaint
Registration Through WhatsApp



Zunax Energy Products LLP

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Manufacturing Facility :

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📍 Unit 2 : Plot no. 24 & 25, IDA Kothur, Rangareddy, Telangana-509228 (INDIA)

MASSIMO[®]

POWER FOR LIFE



Certificates and Approvals

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