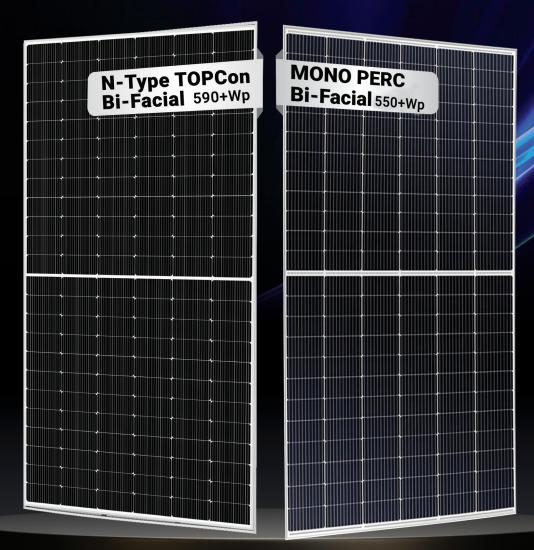


solarising the nation



2.6 GW\* SOLAR MODULE MANUFACTURING CAPACITY







# **About Citizen Solar**



**30 Years**Of Rich Industry
Experience



**2.6 GW\*** Capacity by 2026



**1000**+ Workforce



A **Trusted Brand**For Quality And
Performance



**High Efficiency PV Modules**40 Wp - 650 Wp



High Grade Raw Materials **A+** Grade Solar Cells

## Adaptable, Dynamic & Versatile, Our Modules Can Be Used For



Utilities



Industries



Residential



Institutes



Agriculture



Hospitals



Solar Park



## **Our Vision**

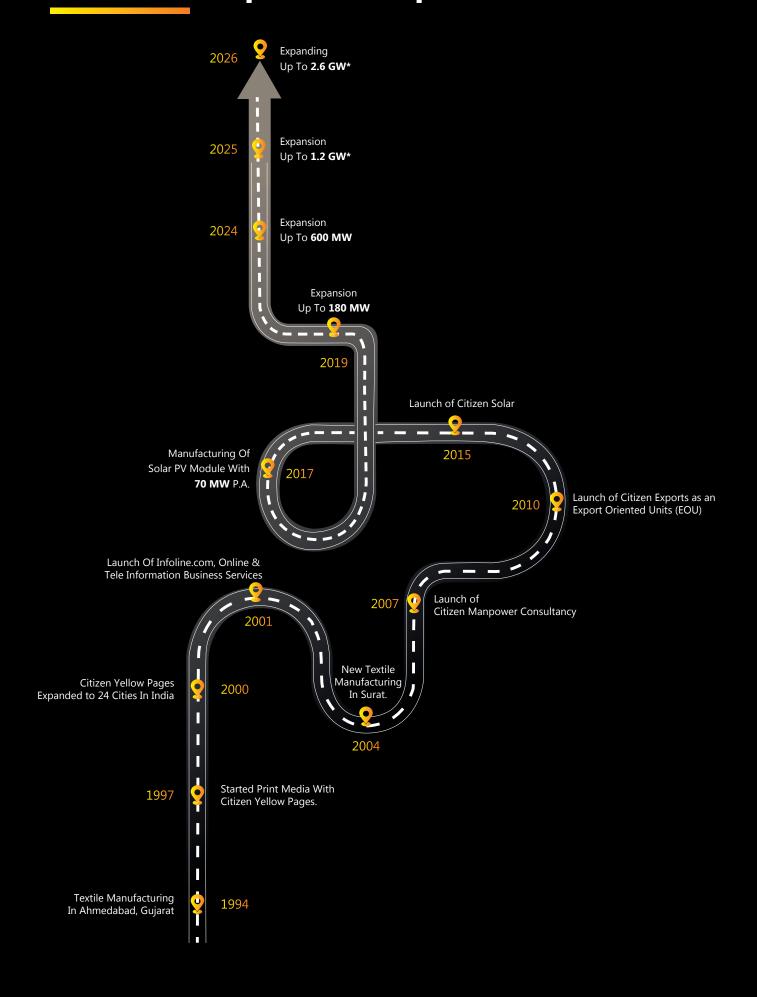
At **Citizen Solar**, we believe to deliver cost effective, better quality & highly efficient sustainable energy products & thus enabling the future of clean & green energy.



## Mission

To grow **Citizen Solar** into a preferred choice for Solar Power Products in India as well as Abroad thus creating a value for all the stakeholders & Customers.

# Citizen Group Road Map & Growth Chart



## INTRODUCTION

- Citizen Solar Private Limited is a part of the 30 year old Citizen Group. Engineered in Germany, Made in India, a BIS and IEC Certified, MNRE and ALMM approved Company with IEC 62804 / IEC 61701/ IEC 61853- 1, IS 14286 / 61730- 1 / 61730- 2 ISO 9001: 2015, ISO 14001: 2015, 45001: 2018 & OHSAS 18001: 2009 Certifications is a Trusted Brand for Quality and Performance using High Grade Raw Materials which is one of India's Premier Solar Panel and Solar Inverter Manufacturer dealing with technologically astute and cutting edge solutions for industrial and business use. Equipped with world class machinery and industry leading infrastructure.
- Citizen Solar's state-of-the-art manufacturing facility is located at Chhatral Kadi Road, Gujarat having been spread over a massive 5 lakhs square feet, capable of consistently producing 1.2 GW energy per annum and it's Corporate office is based at Ahmedabad, Gujarat.
- Citizen Solar comprises of two main divisions that includes Citizen Solar Technology which is a leading Solar Module and Solar Inverter Manufacturer with a Pan India & International presence and that is widely known for their optimum quality.
- >> We are currently supplying Solar PV Modules and Inverters all across the Globe.

## **SMARTER MANUFACTURING SMARTER CHOICE**









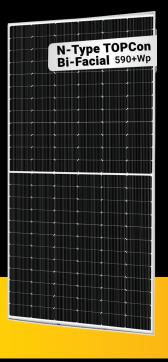


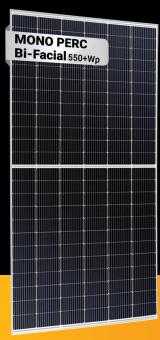




## **MONO PERC & TOPCon SOLAR PV MODULES**

**ENLIGHT SERIES** (TOPCON HALF CUT)





**NEWLIGHT SERIES** (MONOPERC HALF CUT)

## **COMPREHENSIVE CERTIFICATES**

- IS 14286 / 61730-1 / 61730-2 62804 / 61701 / 61853-1
- ISO 9001:2015 ISO 14001:2015 OHSAS 18001:2007









## **KEY FEATURES**



**10BB, 12BB & 16BB** Solar Cell design to improve the module efficiency & give a better aesthetic appearance.



Excellent module efficiency upto 22.86% for TOPCON, upto 21.7% for Mono PERC.



ARC Coated high transmission glass is used which directs more light on module resulting higher energy output.



Robust aluminium frame, ensure the modules to withstand wind load upto 2400 Pa. & heavy snow load upto 5400 Pa.



Positive power tolerance 0~+5wp



High PID resistant, advance technology & qualified material leads to high resistant to PID.



Ip68 junction box for long-term weather endurance.



Low degradation and excellent performance under low light condition and withstanding to harsh environment.



newlight

MONO PERC 550+Wp

**144 Cell 10 BB Cell** 

**Mono Perc Half Cut Module** 

520wp to 560wp



**Ideal For Large Scale Installations** 



**High Power** 



**Better Shading Tolerance** 



**Lower LCOE & system cost** 



**Excellent Temperature Performance** 



**Non-Destructive Cutting** 

Module Efficiency >21.7%

> 12 Years Product Warranty

Positive Power
Tolerance upto
0~+5wp

PID Resistant 30 Years Performance Warranty

> ALMM Approved List by MNRE\*



#### **TECHNICAL DATA**

Electrical Data: All Data refers to STC (1000W/m², AM1.5G, 25°C)

	CSPL-144MHC -WF-520	CSPL-144MHC -WF-525	CSPL-144MHC -WF-530	CSPL-144MHC -WF-535	CSPL-144MHC -WF-540	CSPL-144MHC -WF-545	CSPL-144MHC -WF-550	CSPL-144MHC -WF-555	CSPL-144MHC -WF-560
Product Model Number	CSPL-144MHC -TF-520	CSPL-144MHC -TF-525	CSPL-144MHC -TF-530	CSPL-144MHC -TF-535	CSPL-144MHC -TF-540	CSPL-144MHC -TF-545	CSPL-144MHC -TF-550	CSPL-144MHC -TF-555	CSPL-144MHC -TF-560
Nominal Wattage (Pmax) Wp	520	525	530	535	540	545	550	555	560
No's of Cut Cells	144	144	144	144	144	144	144	144	144
Matrix Configuration	12x6 II 12x6								
Maximum Voltage (Vmp) V	41.14	41.29	41.45	41.60	41.75	41.90	41.95	42.10	42.25
Open Circuit Voltage (Voc) V	49.01	49.16	49.31	49.46	49.61	49.76	49.80	49.95	50.10
Maximum Current (Imp) A	12.65	12.73	12.80	12.88	12.95	13.02	13.12	13.19	13.26
Short Circuit Current (Isc) A	13.55	13.63	13.69	13.76	13.83	13.90	13.98	14.04	14.10
Fill Factor (F.F.) in %	78.37	78.45	78.60	78.61	78.71	78.80	79.00	79.15	79.28
Module efficiency (%)	20.14	20.33	20.53	20.72	20.91	21.11	21.3	21.5	21.7
Power Tolerance	0~+5wp								



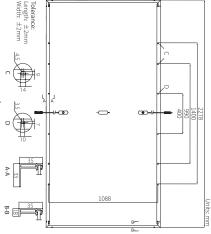
STC: 1000W/m² irradiance, 25°C cell temperature, AM1.5G spectrum according to EN 60904-3 Average relative efficiency reduction of <5% at 200W/m² according to EN 60904-1

#### **Electrical Parameters at NOCT**

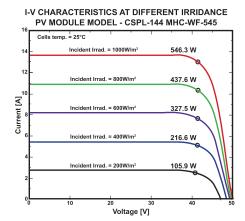
Maximum Power Pmax (Wp)	388.20	393.20	397.50	401.30	405.00	408.80	411.1	414.8	418.6
Maximum Power Voltage (V)	38.09	38.29	38.48	38.68	38.79	38.80	38.97	39.11	39.25
Maximum Power Current (A)	10.15	10.27	10.33	10.39	10.46	10.53	10.56	10.61	10.67
Open Circuit Voltage Voc (V)	45.75	45.94	46.17	46.41	46.54	46.49	46.82	46.97	47.11
Short Circuit Current Isc (A)	10.68	10.78	10.85	10.91	10.98	11.08	11.31	11.35	11.40

NOCT irradiance 800 W/m<sup>2</sup>, ambient temperature 20°C, wind speed 1 m/sec

Temperature Coefficients (Tc) permissible operating conditions				
Maximum Series Fuse Ratings	25A			
Maximum System Voltage	DC1500V(IEC/UL)			

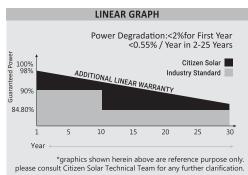


Length x Width x Height (in mm)  2278 x 1134 x 35 (±1.5mm)  28 kg  Split Type Junction Box  Cable & Connectors  4sqm (12AWG) Solar Cable 300mm x 2nos black MC4 Compatible Connectors  Application Class  Class A (Safety Class II)  Substrate (Glass)  High Transmission, Low Iron, Tempered Glass, AR Coated  Solar Cells & Orientation  144 No's Half Cut Mono PERC Solar Cells  Cells Encapsulant  EVA (Ethylene Vinyl Acetate)  Back Sheet  Composite Film - White / Transparent  Silver Anodized Aluminium Frame With Twin Wall Profile  Sustain Heavy Wind & Snow Load (2400Pa & 5400Pa Or 550Kg/m²	MECHANICAL DATA				
Split Type Junction Box  Cable & Connectors  4sqm (12AWG) Solar Cable 300mm x 2nos black MC4 Compatible Connectors  Application Class  Class A (Safety Class II) Substrate (Glass)  High Transmission, Low Iron, Tempered Glass, AR Coated  Solar Cells & Orientation  144 No's Half Cut Mono PERC Solar Cells  Cells Encapsulant  EVA (Ethylene Vinyl Acetate)  Back Sheet  Composite Film - White / Transparent  Frame  Silver Anodized Aluminium Frame With Twin Wall Profile Sustain Heavy Wind & Snow Load (2400Pa & 5400Pa Or 550Kg/m²	Length x Width x Height (in mm)	2278 x 1134 x 35 (±1.5mm)			
Cable & Connectors  4sqm (12AWG) Solar Cable 300mm x 2nos black MC4 Compatible Connectors  Application Class  Class A (Safety Class II)  Substrate (Glass)  High Transmission, Low Iron, Tempered Glass, AR Coated  Solar Cells & Orientation  Cells Encapsulant  EVA (Ethylene Vinyl Acetate)  Back Sheet  Composite Film - White / Transparent  Frame  Silver Anodized Aluminium Frame With Twin Wall Profile  Sustain Heavy Wind & Snow Load (2400Pa & 5400Pa Or 550Kg/m²	Weight	28 kg			
Cable & Connectors  MC4 Compatible Connectors  MC4 Compatible Connectors  Class A (Safety Class II)  Substrate (Glass)  High Transmission, Low Iron, Tempered Glass, AR Coated  Solar Cells & Orientation  144 No's Half Cut Mono PERC Solar Cells  Cells Encapsulant  EVA (Ethylene Vinyl Acetate)  Back Sheet  Composite Film - White / Transparent  Frame  Silver Anodized Aluminium Frame With Twin Wall Profile  Sustain Heavy Wind & Snow Load (2400Pa & 5400Pa Or 550Kg/m²	Split Type Junction Box	IP68 Rated With 3 Bypass Diodes			
Application Class  Class A (Safety Class II)  Substrate (Glass)  High Transmission, Low Iron, Tempered Glass, AR Coated  Solar Cells & Orientation  144 No's Half Cut Mono PERC Solar Cells  Cells Encapsulant  EVA (Ethylene Vinyl Acetate)  Back Sheet  Composite Film - White / Transparent  Frame  Silver Anodized Aluminium Frame With Twin Wall Profile  Sustain Heavy Wind & Snow Load (2400Pa & 5400Pa Or 550Kg/m²	Cable & Connectors	4sqm (12AWG) Solar Cable 300mm x 2nos black			
Substrate (Glass)  Solar Cells & Orientation  Cells Encapsulant  Back Sheet  Frame  High Transmission, Low Iron, Tempered Glass, AR Coated  144 No's Half Cut Mono PERC Solar Cells  EVA (Ethylene Vinyl Acetate)  Composite Film - White / Transparent  Silver Anodized Aluminium Frame With Twin Wall Profile  Sustain Heavy Wind & Snow Load (2400Pa & 5400Pa Or 550Kg/m²		MC4 Compatible Connectors			
Solar Cells & Orientation  144 No's Half Cut Mono PERC Solar Cells  Cells Encapsulant  EVA (Ethylene Vinyl Acetate)  Back Sheet  Composite Film - White / Transparent  Frame  Silver Anodized Aluminium Frame With Twin Wall Profile  Sustain Heavy Wind & Snow Load (2400Pa & 5400Pa Or 550Kg/m²	Application Class	Class A (Safety Class II)			
Cells Encapsulant  EVA (Ethylene Vinyl Acetate)  Back Sheet  Composite Film - White / Transparent  Frame  Silver Anodized Aluminium Frame With Twin Wall Profile  Sustain Heavy Wind & Snow Load (2400Pa & 5400Pa Or 550Kg/m²	Substrate (Glass)	High Transmission, Low Iron, Tempered Glass, AR Coated			
Back Sheet  Composite Film - White / Transparent  Frame  Silver Anodized Aluminium Frame With Twin Wall Profile  Sustain Heavy Wind & Snow Load (2400Pa & 5400Pa Or 550Kg/m²	Solar Cells & Orientation	144 No's Half Cut Mono PERC Solar Cells			
Frame Silver Anodized Aluminium Frame With Twin Wall Profile Sustain Heavy Wind & Snow Load (2400Pa & 5400Pa Or 550Kg/m²	Cells Encapsulant	EVA (Ethylene Vinyl Acetate)			
Sustain Heavy Wind & Snow Load (2400Pa & 5400Pa Or 550Kg/m²	Back Sheet	Composite Film - White / Transparent			
	Frame	Silver Anodized Aluminium Frame With Twin Wall Profile			
		Sustain Heavy Wind & Snow Load (2400Pa & 5400Pa Or 550Kg/m²			
Maximum Diameter Of 24mm With Hail Impact of 83Km/h	Mechanical Load Test	Maximum Diameter Of 24mm With Hail Impact of 83Km/h			



	WARRANTY AND CERTIFICATIONS
Performance Warranty**	Linear Power Warranty for 30 years, 90% for 12 years and 80% for 30 years.
Approvals & Certificates	Products: IS:14286 / IEC:61215:2005-ED2, IEC:61730-Ed.1&ED.2

STACKING STANDARD						
	No. of Modules	No. of Pallets	Modules Per Pallet / Pallet Weight	Pallet Dimensions		
19FT	224 Nos.	8 Pallets	28 Nos. / 850 Kgs.	2300 x 1010 x 1300		
32FT	336 Nos.	12 Pallets	28 Nos. / 850 Kgs.	2300 x 1010 x 1300		
40FT	616 Nos.	22 Pallets	28 Nos. / 850 Kgs.	2300 x 1080 x 1300		
20 GP Container	310 Nos.	10 Pallets	31 Nos. / 945 Kgs.	2300 x 1080 x 1300		
40 HC Container	620 Nos.	20 Pallets	31 Nos. / 945 Kgs.	2300 x 1080 x 1300		





solarising the nation



16bb bifacial cell technology

TOPCon 590+Wp

**144 Cell 16 BB Cell** 

N-Type TOPCon Half Cut Bifacial Module

580wp to 590wp



**Extra Power** 



**Extra Life** 



**Double-Sided Power Generation** 



Excellent anti-LeTID & anti-PID performance



Lower temperature coefficient



**Lower LCOE & system cost** 

N-type Citizen TOPCON Bifacial Modules have the best efficiency >22.86% with higher power generation and reliable characteristic resistance. These panels provide efficient production under extreme weather conditions along with bifaciality with lower degradation. N-type Citizen TOPCON Bifacial Modules generate significantly more. power per watt(kwh/kw) over 30 years(Long life) of use compared to PERC panels.

Module Efficiency >22.86%

Positive Power
Tolerance upto
0~+5wp

30 Years Performance Warranty

12 Years Product Warranty

PID Resistant ALMM Approved List by MNRE\*



## **CSPL N-TYPE TOPCon ENLIGHT GTG SERIES: CSPL 580-590wp**

#### **TECHNICAL DATA**

Electrical Data : All Data refers to STC (1000W/m², AM1.5G, 25°C) and NOCT irradiance 800 W/m², ambient temperature 20°C, wind speed 1 m/sec

Product Model Number	CSPL-144TH	CSPL-144THC-GF-580		CSPL-144THC-GF-585		C-GF-590
Froduct Model Nambel	STC	NOCT	STC	NOCT	STC	NOCT
Nominal Wattage (Pmax) Wp	580	435	585	439	590	443
No's of Cut Cells	144	144	144	144	144	144
Matrix Configuration	12x6 II 12x6		12x6 II 12x6		12x6 II 12x6	
Maximum Voltage (Vmp) V	44.75	42.03	44.94	42.2	45.12	42.37
Open Circuit Voltage (Voc) V	52.80	49.79	53.01	49.98	53.21	50.18
Maximum Current (Imp) A	12.97	10.35	13.02	10.41	13.08	10.45
Short Circuit Current (Isc) A	13.65	11.00	13.71	11.04	13.76	11.09
Fill Factor (F.F.) in %	80±5%		80±5%		80±5%	
Module efficiency (%)	22.47		22.67		22.86	
Power Tolerance	0~+5wp		0~+5wp		0~+5wp	

STC :  $1000W/m^2$  irradiance, 25°C cell temperature, AM1.5G spectrum according to EN 60904-3 Average relative efficiency reduction of <5% at  $200W/m^2$  according to EN 60904-1

BIF	BIFACIAL OUTPUT - BACKSIDE POWER GAIN @STC*[ Bifaciality Factor: 80%±10%]							
5%	Nominal Maximum Power (Pmax)	609	614	620				
	Module Short Circuit Current / Efficiency	14.33A / 23.60%	14.39A / 23.79%	14.45A / 24.00%				
10%	Nominal Maximum Power (Pmax)	638W	644W	649W				
	Module Short Circuit Current / Efficiency	15.02A / 24.72%	15.08A / 24.95%	15.14A / 25.14%				
25%	Nominal Maximum Power (Pmax)	725W	731W	738W				
	Module Short Circuit Current / Efficiency	17.06A / 28.09%	17.13A / 28.32%	17.20A / 28.57%				

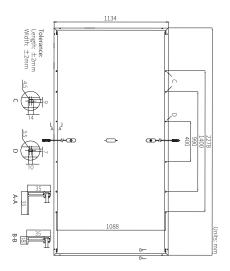
[Note: The bifacial gain depends on the power plant design and site conditions. Electrical component ratings should be selected as per actual Bifacial gain at site.

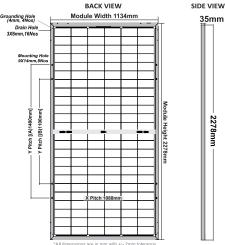
Temperature Coefficients (Tc) permissible operating conditions					
Operating Temperature (°C)	-40°C to+85°C				
Maximum system voltage	1500 V				
Maximum series fuse rating	30A				
Temperature coefficients of Pmax	-0.2909%/°C				
Temperature coefficients of Voc	-0.2261%/°C				
Temperature coefficients of Isc	0.0265%/°C				
Nominal operating cell temperature (NOCT)	45±2°C				
Refer. Bifacial Factor	80±5%				

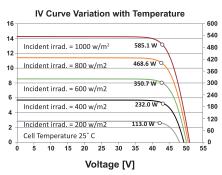
#### **MECHANICAL SPECIFICATIONS** Dimensions 2278(L) x 1134(W) x 35(T) Weight Cell type / No Of Cell 144 Half-cut N-type TOPCon Bifacial Solar cells Anodized Aluminum Alloy (6005, Temper T6, Silver colour) Frame Low Iron semi-Tempered AR coated Glass (2 mm thick ) Front Cover Encapsulate PID resistant and UV resistant Polymeric Film **Back Cover** Low Iron semi-Tempered Glass (2 mm thick) Junction Box 30A Split Junction Box (3 nos. with individual Bypass Diode) - Weatherproof (IP68) Bypass Diode 50 A, 45 V, 200 °C max. junction temperature 4 sq. mm, 300 mm length (Customised cable length available on request) Cable MC4 compatible (MC4 original available on request) Connectors **Application Class Rating** Class A Safety Class Rating Class II 5400 Pa-Front; 2400 Pa-Back (as per IEC & UL) **Mechanical Load Test** [A] 1400, [B] 1100, (Holes at 400 mm Y-pitch for tracker can be provided on customer request) Mounting Holes Pitch (Y)-mm 1088 Mounting Holes Pitch (X)-mm

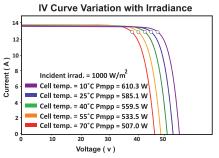
WARRANTY AND CERTIFICATIONS					
Performance Warranty**	Linear Power Warranty for 30 years, 90% for 12 years and 87.4% for 30 years				
Approvals & Certificates Products: IS:14286 / IEC:61215:2005-ED2, IEC:61730-Ed.1&ED.2					
STACKING STANDARD					

	STACKING STANDARD							
	No. of Modules	No. of Pallets	Modules Per Pallet / Pallet Weight	Pallet Dimensions				
19FT	224 Nos.	8 Pallets	28 Nos. / 975 Kgs.	2300 x 1010 x 1300				
32FT	336 Nos.	12 Pallets	28 Nos. / 975 Kgs.	2300 x 1010 x 1300				
40FT	616 Nos.	22 Pallets	28 Nos. / 975 Kgs.	2300 x 1080 x 1300				
20 GP Container	310 Nos.	10 Pallets	31 Nos. / 1075 Kgs.	2300 x 1080 x 1300				
40 HC Container	620 Nos.	20 Pallets	31 Nos. / 1075 Kgs.	2300 x 1080 x 1300				











\*graphics shown herein above are reference purpose only. please consult Citizen Solar Technical Team for any further clarification.



solarising the nation

# **CS SERIES**

**ON-GRID PV INVERTERS** 

Single Phase For Residence CS 1KW to 6Kw

Three Phase For Residence CS 5KW to 12Kw

Three Phase For Commercial And Industry
CS 15Kw to 110kw

# 5G PRO Grid Tie Inverter 5G PRO MEGA HV Grid Tie Inverter











## CONVENIENT & RELIABLE, CUSTOMER ORIENTED

#### PRE SALES SUPPORT







**Specialized Product Consulting** 



One-on-One Application Coaching



Systematic & Consistent Product Training

#### **AFTER SALES SERVICE**

#### Sufficient Warranty Period

- -• 96 months standard warranty for On-Grid inverters. (from the date of Tax Invoice)
- 24 months standard warranty for Hybrid inverters.
   (from the date of Tax Invoice)
- -• 24 months standard warranty for accessories.(from the date of Tax Invoice)

#### Replacement Service

- Spare units will be sent to customer for immediate resolution.
- The remaining warranty
  period of the defective unit will be
  transferred automatically to
  the replacement unit, if a
  replacement occurred within
  warranty.

# Quick Response RMA (Return Material Authorization) Service

 RMA responses within 3 working days after on-site inspection is performed



Customer Care +91 8000 111 222

### **TECHNICAL DATASHEET**

			Single Phase			Three Phase		
Model (CS)	1 2 3 KW KW KW	4   5   6 KW KW KW	1.2   2.2   2.3   3.2   3.3 KW   KW   KW   KW   KW	3.8   4.2   4.6   5.2   5.3   6.2 KW   KW   KW   KW   KW   KW	5 6 7 8 10 12 KW KW KW KW KW KW	2   15   20   25   25   33   35   40   50   60   70   75   80   100   100 N   Kw   Kw   Kw   Kw   Kw   Kw   Kw   K		
Input (DC)								
Max Peak DC Input Power (KW)  Max. DC I/P (V dc)	1.1   2.2   3.3 500V DC	4.4   5.5   6.6 500/600V DC	1.1   2.2   2.3   3.2   3.3   500V DC	3.8   4.4   5.06   5.5   5.83   6.6 500/600V DC	1000 VDC	12   16.5   24   27.5   30   36   38.5   48   60   72   77   90   96   100   120   1000 VDC   1000 VDC		
Max. MPPT I/P Current (A)	10A	10A	10A	10A	10A 10A 20A	V 10/ H 20A 25A 28.5 A 28.5A 40A		
MPPT Short Circuit Current (A)  MPPT Tracking Voltage (Vdc)  Min. Start Voltage (V)			15A 100-500V 100/120V			21.7A 36A 40A 57A		
Number Of MPPT Tracker Strings Per MPPT Tracker Output (AC)	1	2	1	2	2 1 2/	2 3 3/4 4 6		
Rated Output Power (KW) Rated Grid Voltage (V) Nominal Grid Freq. (Hz)	1 2 3	4   5   6	1 2 2 3 3.3 230V 50Hz	3.8 4 4.6 5 5.3 6	5   6   7   8   10   1	2   15   20   25   25   30   35   40   50   60   70   75   80   100   100 400VAC 50Hz		
Max. Output Current AC (A)  AC Connection (With PE)  THD (%)	4.37 8.69 13	17.4 21.7 26	4.37 8.69 8.69 13 14.34 P + N +E 2.5-5%	16.52 17.4 20 21.7 23.04 26	7.2   8.7   10.1   11.6   14.5   17	4   21.17   29   36.2   36.2   47.8   50.7   58   72.4   87   101.4   108.7   115.9   144.5		
Output Power Factor (%)  Efficiency			>0.99%		2.0 0 70	>0.99%		
Max. Conversion Eff. (%) Max. Euro Efficiency (%) Max. MPPT Efficiency (%)	97.5%	97.6%	97.5% 97% >99%	97.6%	98% 97.50% >99%	98.5 % 98.2% >99%		
Physical Parameters						380x   400-500		
Dimensions (LxHxW) mm	310x330x115		310x330x115	310x330x172	385x453.39x177.13	453x 400x320 485x630x270 520x700x270 838x 83 323 32		
Weight (Kg)	6	11	6	11	18	18 31 38 68 80 83		
Enclosure Color			PANTONE Cool Grey3 C		PANTONE Cool Grey3 C			
Color Thickness General Data			100-250μ (Micron)			100-250 $\mu$ (Micron)		
Operating Temperature			-25° to +60°			-25° to +60°		
Operating Surrounding Humidity			0-100%			0-100%		
Design Life			Over 25 Years		Over 25 Years			
Night Con. (W) / Noise Level			<0.2/<30dB		<1W/<30dB			
Heat Dissipation			Natural Convection		Natural Convection Intelligent Forced Cooling + Natural Convection			
RH / Max. Altitude Display	09		ondensation / <2000 Witho raphical-LED With LCD Displa		0% to 98%. No Condensation / <2000 Without Power Derating  Graphical-LED With LCD Display			
DC / AC Connectors (IP-65)		14851 / 000	MC-4	DAIST LAND		MC-4		
Communication Interface		·	S / RS 485 / RS 232 / ETHE			PRS / RS 485 / RS 232 / ETHERNET LAN / Local Monitoring		
Standard Warranty		5 Ye	ears (Extendable Upto 10 Ye	ar)	5,7 Years (Extendable Upto 10 '	Years) 7 Years (Extendable Upto 10 Years)		
Standards, Safety & Protections			0.11			1.1. %		
DC Switch		т	Optional	-n	Time 2 CDD (Wish	Inbuilt		
SPD (Surge Protection Device)	Type - 3 SPD (With GDT Optional) IEC 61683			aiJ	Type-3 SPD (With GDT Optional)  Type-2 / Type-3 SPD / GDT			
MPPT Efficiency Inverter Efficiency	IEC 61683				IEC 61683			
Over Voltage Category	IEC 62109-1				IEC 61683 IEC 62109-1			
Safety Standard	IEC 62109-1				IEC 62109-1 IEC 62109-1&2			
EMC Standard	IEC 62109-182					IEC 61000-6-1/2/3/4		
Emnyironment Protection	IEC 61000-0-1/2/3/4 IEC 60068-2-1/2/14/15					IEC 60068-2-1/2/14/15		
Anti-Islanding			IEC-62116			IEC-62116		
Ingress Protection			IP 65			IP 65		
Protection & Safety		PV Lighte	ening, DC Input Short Circuit Under Fred	quency, Over Temperature, GDT ((	Optional), SPD As Per Requirem	utput Over / Under Voltage, Output Over Current, Output Over / ent Type-182, AC Output PF Control, Remote Grid Monitoring Setting & Anti-Islanding.		







- Corporate Office: 412, Sakar-2, Ellisbridge Corner, Ashram Road, Ahmedabad-380006. Factory: New Survey No.966, Village: Indrad, Chhattral - Kadi Road, Ta. Kadi, Dist. Mehsana, Gujarat-382715.
- © Customer Care: +91 8000 111 222





