



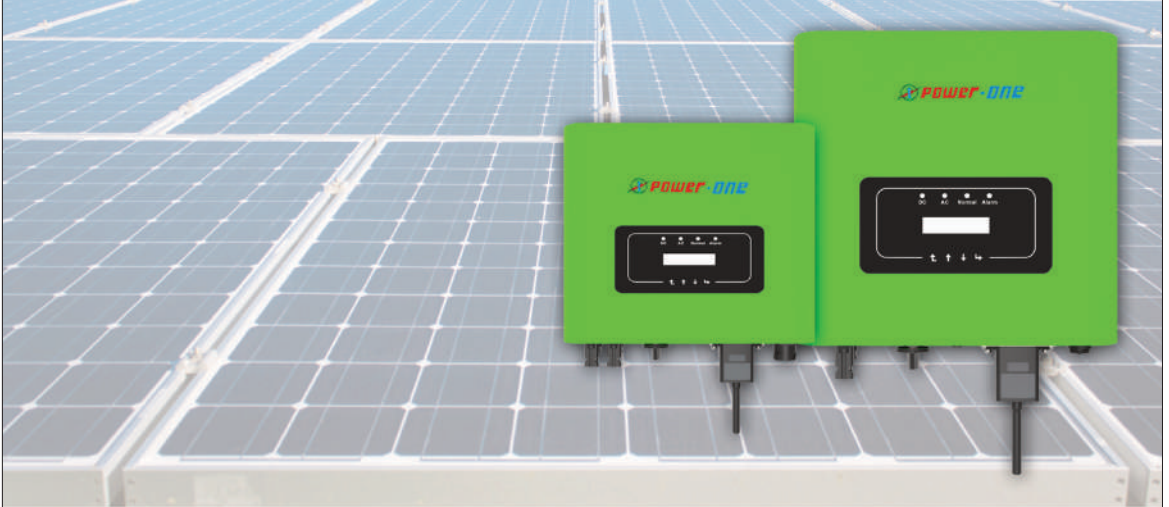
SOLAR GRID-TIE INVERTERS



1KW - 6KW Single Phase
5KW - 80KW Three Phase

THE
one
ANSWER TO
ALL YOUR
SOLAR NEEDS

1KW - 6KW SINGLE PHASE



FEATURES

- DC Overloading upto 30%
- AC Overloading upto 10%
- Wide Input Range
- Dual MPPT Design with Accurate MPPT Algorithm
- Natural Cooling
- Compact and Light Design for an Easy Installation
- Transformerless GT Topology
- RS485, Remote Monitoring (Wi-Fi/GPRS)
- Numerous Protection Functions
- Mobile App Monitoring
- Optionals
 - Export Power Block Function
 - Weather Monitoring

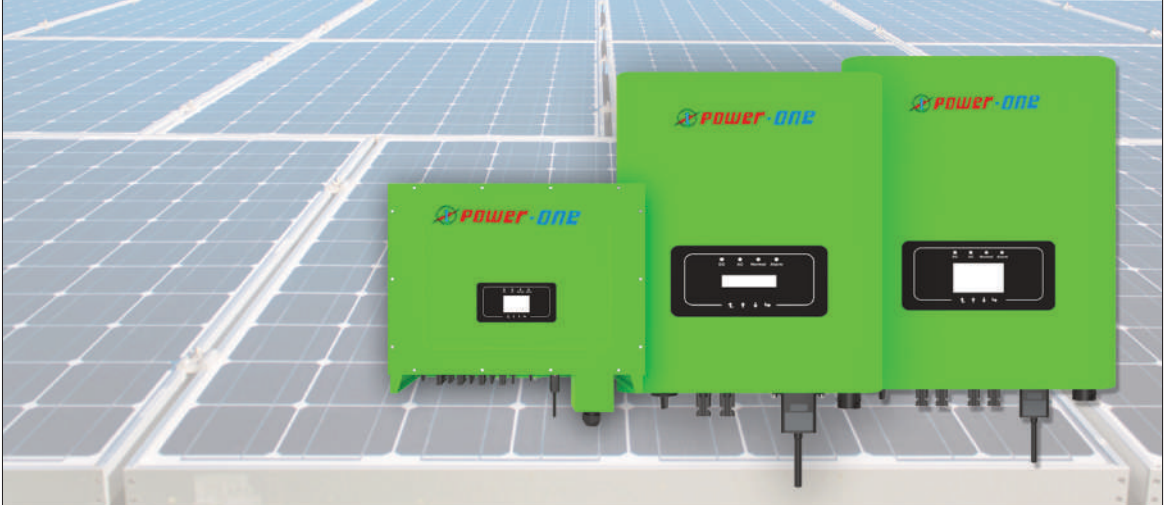


TECHNICAL SPECIFICATIONS

Capacity	1 KW	2 KW	3 KW	5 KW
Model No.	SGTU-101-N	SGTU-102-N	SGTU-103-SN	SGTU-105N
INPUT				
Nominal Input DC Power (KW)	1	2	3	5
Max. DC Input Voltage (V)	500			
Start-up DC Input Voltage (V)	80	120		
MPPT Operating Range (V)	70-500	100-500		
Max. DC Input Current (A)	10A		10A per MPPT	
Number of MPPT	1	1	1	2
Number of Strings / MPPT	1	1	1	1
OUTPUT				
Rated Output Power (KW)	1	2	3	5
Rated AC Grid Voltage (V)	230			
AC Grid Voltage Range (V)	140-290			
Rated Grid Frequency (Hz)	50			
Operating Phase	Single Phase			
Rated AC Grid Output Current (A)	4.3	8.7	13.1	22
THD	< 3%			
Grid Frequency Range	45-55			
Max. Efficiency	97.3%		97.5%	
PROTECTION				
Available	<ul style="list-style-type: none"> • DC Reverse - Polarity Protection • Output Overvoltage Protection • Surge Protection 	<ul style="list-style-type: none"> • AC Short Circuit Protection • Insulation Resistance Protection • Islanding Protection 	<ul style="list-style-type: none"> • AC Output Overcurrent Protection • Ground Fault Monitoring • Temperature Protection 	
GENERAL DATA				
Size (mm) (WxHxD)	330 x 347.5 x 127			330 x 347.5 x 179
Weight (kg)	7			12.5
Topology	Transformerless			
Running Temperature	-25 - 60°C			
Ingress Protection	IP65			
Noise Emission (Typical)	< 30dB			
Cooling Concept	Natural Cooling			
Operating Surroundings Humidity	0 - 100%			
IEC STANDARDS				
Energy Efficiency	IEC 61683:1999			
Environmental	IEC 60068-2-1:2007, IEC 60068-2-2:2007, IEC 60068-2-14:2009, IEC 60068-2-30:2005			
IP65	IEC 60529			
Safety	IEC 62109-2:2011			
Anti-Islanding	IEC 62116:2014			
Utility Interface	IEC 61727:2004			
EMC	IEC 61000			
FEATURES				
DC Connection	MC-4 Connector			
AC Connection	IP65 Rated Plug			
Display	LCD			
Interface for GPRS/Wi-Fi Monitoring	RS485 / RS232			

Note: 6KW Single Phase also available

5KW- 80KW THREE PHASE



FEATURES

- DC Overloading upto 30%
- AC Overloading upto 10%
- Wide Input Range
- Dual/Multi MPPT Design with Accurate MPPT Algorithm
- Natural Cooling / Forced Air
- Compact and Light Design for an Easy Installation
- Transformerless GT Topology
- RS485, Remote Monitoring (Wi-Fi/GPRS)
- Numerous Protection Functions
- Mobile App Monitoring
- Optionals
 - Export Power Block Function
 - Weather Monitoring
 - String Level Monitoring
 - Fuse, SPD for AC & DC Protection



TECHNICAL SPECIFICATIONS

Capacity	5 KW	6 KW	8 KW	10 KW	12 KW	15 KW	20 KW
Model No.	SGTU-105 3P N	SGTU-106 3P N	SGTU-108 3P N	SGTU-103N	SGTU-1253N	SGTU-153N	SGTU-203N
INPUT							
Nominal Input DC Power (KW)	5	6	8	10	12	15	20
Max. DC Input Voltage (V)	900					1000	
Start-up DC Input Voltage (V)				250			
MPPT Operating Range (V)				200-800			
Max. DC Input Current (A)	10A per MPPT					20A per MPPT	
Number of MPPT	2	2	2	2	2	2	2
Number of Strings / MPPT	1	1	1	1	2	(2+1)	2
OUTPUT							
Rated Output Power (KW)	5	6	8	10	12	15	20
Rated AC Grid Voltage (V)				380 / 400			
AC Grid Voltage Range (V)				280-480			
Rated Grid Frequency (Hz)				50			
Operating Phase				Three Phase			
Rated AC Grid Output Current (A)	7.2	8.7	11.6	14.5	17.4	21.7	29
THD				< 3 %			
Grid Frequency Range				45-55			
Max. Efficiency	98.3%					98.6%	
PROTECTION							
Available	<ul style="list-style-type: none"> • DC Reverse - Polarity Protection • Output Overvoltage Protection • Surge Protection 		<ul style="list-style-type: none"> • AC Short Circuit Protection • Insulation Resistance Protection • Islanding Protection 		<ul style="list-style-type: none"> • AC Output Overcurrent Protection • Ground Fault Monitoring • Temperature Protection 		
GENERAL DATA							
Size (mm) (WxHxD)	385 x 479 x 184					455 x 573 x 265	
Weight (kg)	15					28	
Topology				Transformerless			
Internal Consumption				<2W (Night)			
Running Temperature				-25°C - +60°C			
Ingress Protection				IP65			
Noise Emission (Typical)				< 30dB			
Cooling Concept				Natural Cooling		Forced Air	
Operating Surroundings Humidity				0 - 100%			
IEC STANDARDS							
Energy Efficiency				IEC 61683:1999			
Environmental				IEC 60068-2-1:2007, IEC 60068-2-2:2007, IEC 60068-2-14:2009, IEC 60068-2-30:2005			
IP65				IEC 60529			
Safety				IEC 62109-2:2011			
Anti-Islanding				IEC 62116:2014			
Utility Interface				IEC 61727:2004			
EMC				IEC 61000			
FEATURES							
Integrated DC Switch				Available			
DC Connection				MC-4 Connector			
AC Connection				IP65 Rated Plug			
Display				LCD			
Interface for GPRS/WIFI Monitoring				RS485 / RS232			

Note: 7KW Three Phase also available



TECHNICAL SPECIFICATIONS

Capacity	25 KW	33 KW	35 KW	50 KW	60 KW	70 KW	75 KW	80 KW	
Model No.	SGTU-253N	SGTU-333N	SGTU-353N	SGTU-503N	SGTU-603N	SGTU-703N	SGTU-753N	SGTU-803N	
INPUT									
Nominal Input DC Power (KW)	25	33	35	50	60	70	75	80	
Max. DC Input Voltage (V)	1000								
Start-up DC Input Voltage (V)	250								
MPPT Operating Range (V)	200-850								
Max. DC Input Current (A)	20A per MPPT		30A per MPPT		40A per MPPT				
Number of MPPT	2	2	3	4	4	4	4	4	
Number of Strings / MPPT	2	3	3	3	3	4	4	4	
OUTPUT									
Rated Output Power (KW)	25	33	35	50	60	70	75	80	
Rated AC Grid Voltage (V)	380 / 400								
AC Grid Voltage Range (V)	280-480								
Rated Grid Frequency (Hz)	50								
Operating Phase	Three Phase								
Rated AC Grid Output Current (A)	36.2	48	50.6	72.4	87.8	101.5	108.7	115.9	
THD	< 3%								
Grid Frequency Range	45-55								
Max. Efficiency	98.6%	98.7%			98.9%				
PROTECTION									
Available	<ul style="list-style-type: none"> • DC Reverse - Polarity Protection • Output Overvoltage Protection • Surge Protection 		<ul style="list-style-type: none"> • AC Short Circuit Protection • Insulation Resistance Protection • Islanding Protection 		<ul style="list-style-type: none"> • AC Output Overcurrent Protection • Ground Fault Monitoring • Temperature Protection 				
GENERAL DATA									
Size (mm) (WxHxD)	455 x 573 x 265				700 x 684 x 307				
Weight (kg)	28	55			60				
Topology	Transformerless								
Internal Consumption	<2W (Night)								
Running Temperature	-25°C - +60°C								
Ingress Protection	IP65								
Noise Emission (Typical)	< 30dB								
Cooling Concept	Forced Air	Natural Cooling			Forced Air				
Operating Surroundings Humidity	0 - 100%								
IEC STANDARDS									
Energy Efficiency	IEC 61683:1999								
Environmental	IEC 60068-2-1:2007, IEC 60068-2-2:2007, IEC 60068-2-14:2009, IEC 60068-2-30:2005								
IP65	IEC 60529								
Safety	IEC 62109-2:2011								
Anti-Islanding	IEC 62116:2014								
Utility Interface	IEC 61727:2004								
EMC	IEC 61000								
FEATURES									
Integrated DC Switch	Available								
DC Connection	MC-4 Connector								
AC Connection	IP65 Rated Plug								
Display	LCD								
Interface for GPRS/WIFI Monitoring	RS485 / RS232								

Note: 40KW Three Phase also available

OUR PRESENCE



BRANCH OFFICES

North		South				East	West
Jammu	Dehradun	Mysore	Bellari	Tirupathi	Madurai	Jamshedpur	Surat
Srinagar	Bareilly	Mangalore	Shimoga	Kollam	Coimbatore	Siliguri	Vadodara
Kanpur	Gorakhpur	Manipal	Karwar	Kottayam	Davanagere	Gangtok	Nagpur
Allahabad	Indore	Hubli	Vijayapura	Palakkad	Puducherry		Nashik
		Belgaum	Rajamundry	Trichy			Goa
		Gulbarga	Nellore				

REGIONAL OFFICES

01 New Delhi
Mob: +91- 8527298881
+91- 8527298890

09 Bhubaneswar
Mob: +91- 7899903422

02 Chandigarh
H.N. 1121/1, Sector-29B,
Chandigarh - 160030
Mob: +91- 8527298891

10 Hyderabad
No. 102, First Floor,
Rivera Apartments, Dwarakapuri Colony,
Panjagutta,
Hyderabad- 500082
Mob: +91- 9849638833
Tel: +91-40-23356501

03 Patna
Leelavarta Central, 2nd Floor,
Near Alpana Market,
Patliputra, Patna - 800013
Mob: +91- 9835152630

11 Vijayawada
No.32-15-110/2, Flat No A3,
Third Floor, Kailash Avenue
Ratnamamba Street
Mogalrajapuram
Vijayawada - 520010
Mob: +91- 9848134706

04 Ranchi
Sukriti, Lajpat Nagar,
Road No. 05,
Near Lala Lajpat Rai Senior Secondary
School, Pundag, Ranchi - 834004
Mob: +91- 9835152630

12 Visakhapatnam
50-27-17/4, TPT Colony
Seethammadhara,
NRI Hospital Road,
Beside Padmavathi Hospital,
Visakhapatnam - 530013
Mob: +91- 7348939605

05 Kolkata
Mob: +91- 9830438405
+91-9830116680

13 Chennai
No.34, A&B, East Chetty Street,
St. Thomas Mount,
Chennai - 600016
Mob: +91- 9840275766

06 Ahmedabad
C-45, First Floor, Vishwas City-2,
R.C. Technical Institute Road,
Ghatlodia, Ahmedabad - 380061
Mob: +91- 9426516831
Tel: +91-79-27773299 / 27482399

14 Hubli
No - 12, Hallikeri Building,
Jayanagar, Vidanagar
Hubli - 580021
Mob: +91- 9980566117

07 Pune
Sr. No 32/14 Avdhoot Complex
, B2 / 5 Ambegaon Bk
Pune - 411 046 .
Mob: +91- 9980557667

15 Cochin
RR Building - No. 48/651 F2,
Second Floor, South Keerthi
Nagar, Elamakara, Kochi - 682026
Mob: +91- 9446021399

08 Nagpur
Mob: +91- 9108283149

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Raipur: +91-9108283149 | Mumbai: +91- 9148598673 | Calicut: +91-9447744724