



POWER-ONE[®]
Micro Systems Pvt. Ltd.

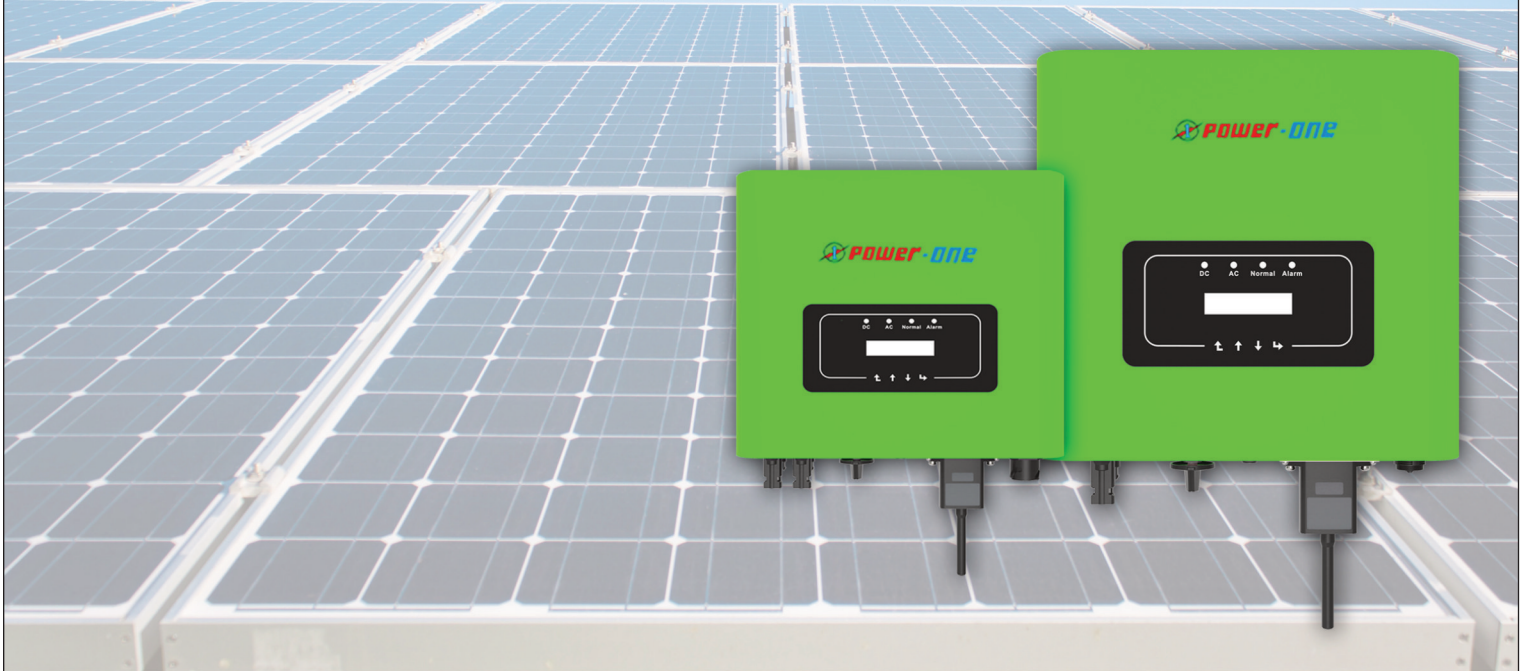
SOLAR GRID-TIE INVERTERS



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

**THE
ONE**
ANSWER TO
ALL YOUR
SOLAR NEEDS

1KW - 6KW SINGLE PHASE



FEATURES

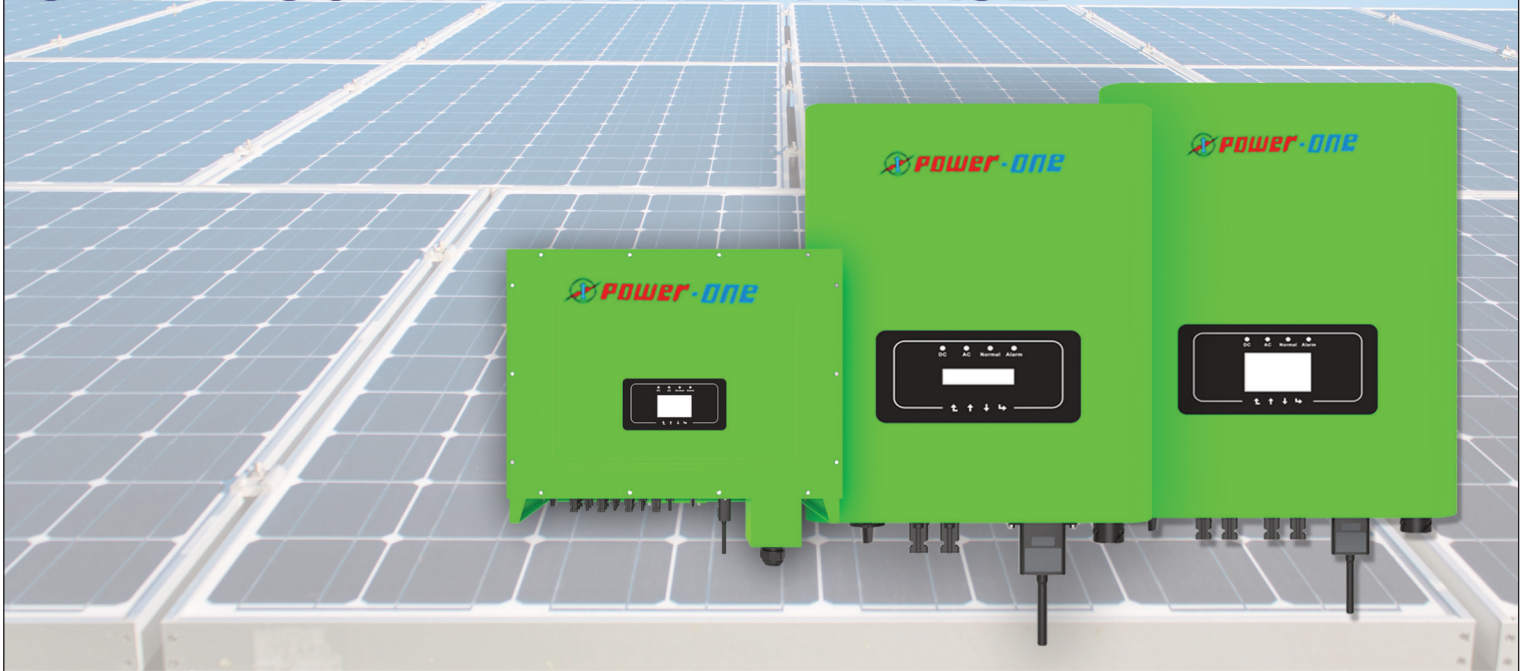
- DC Overloading upto 30%
- AC Overloading upto 10%
- Wide Input Range
- Dual MPPT Design with Accurate MPPT Algorithm
- Natural Cooling
- Compact and Light Design for an Easy Installation
- Transformerless GT Topology
- RS485, Remote Monitoring (Wi-Fi/GPRS)
- Numerous Protection Functions
- Mobile App 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 3PN	SGTU-106 3PN	SGTU-108 3PN	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