



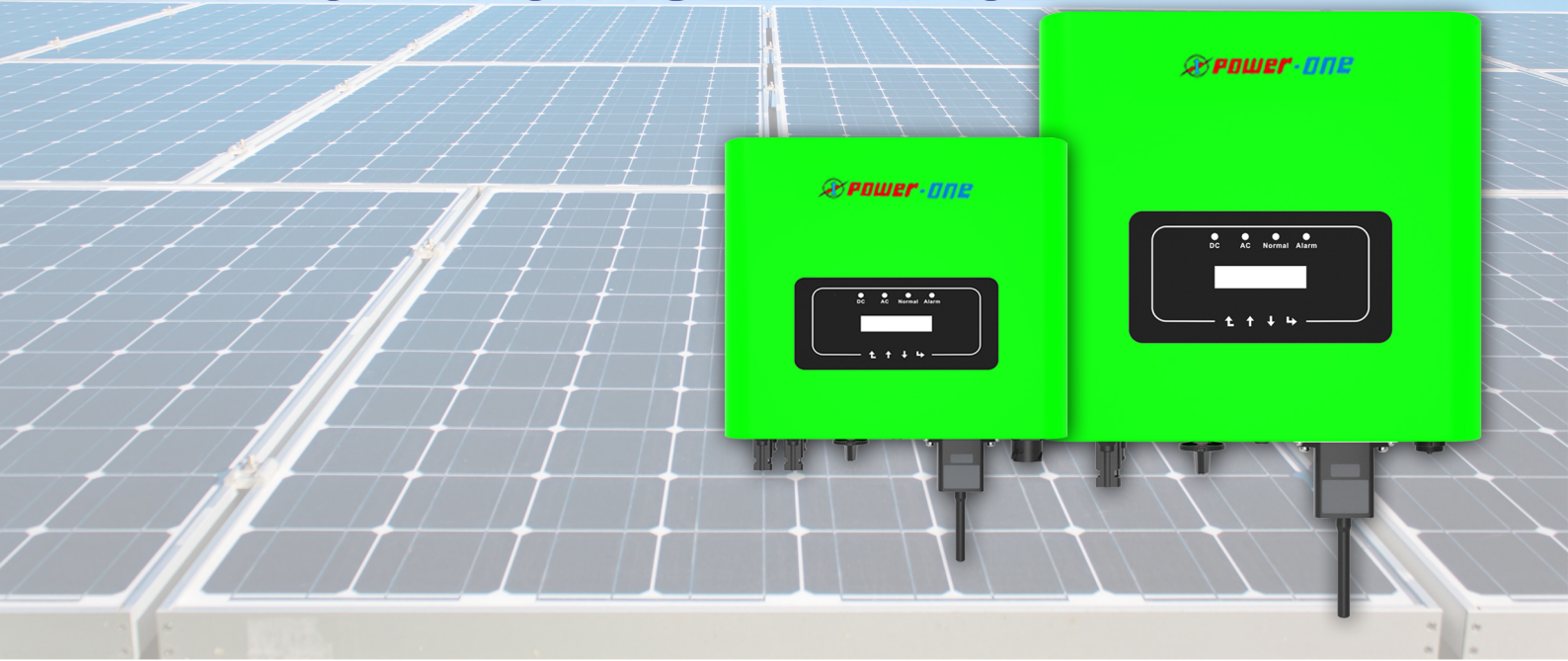
# SOLAR GRID-TIE INVERTERS



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

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

# 1KW - 5KW SINGLE PHASE



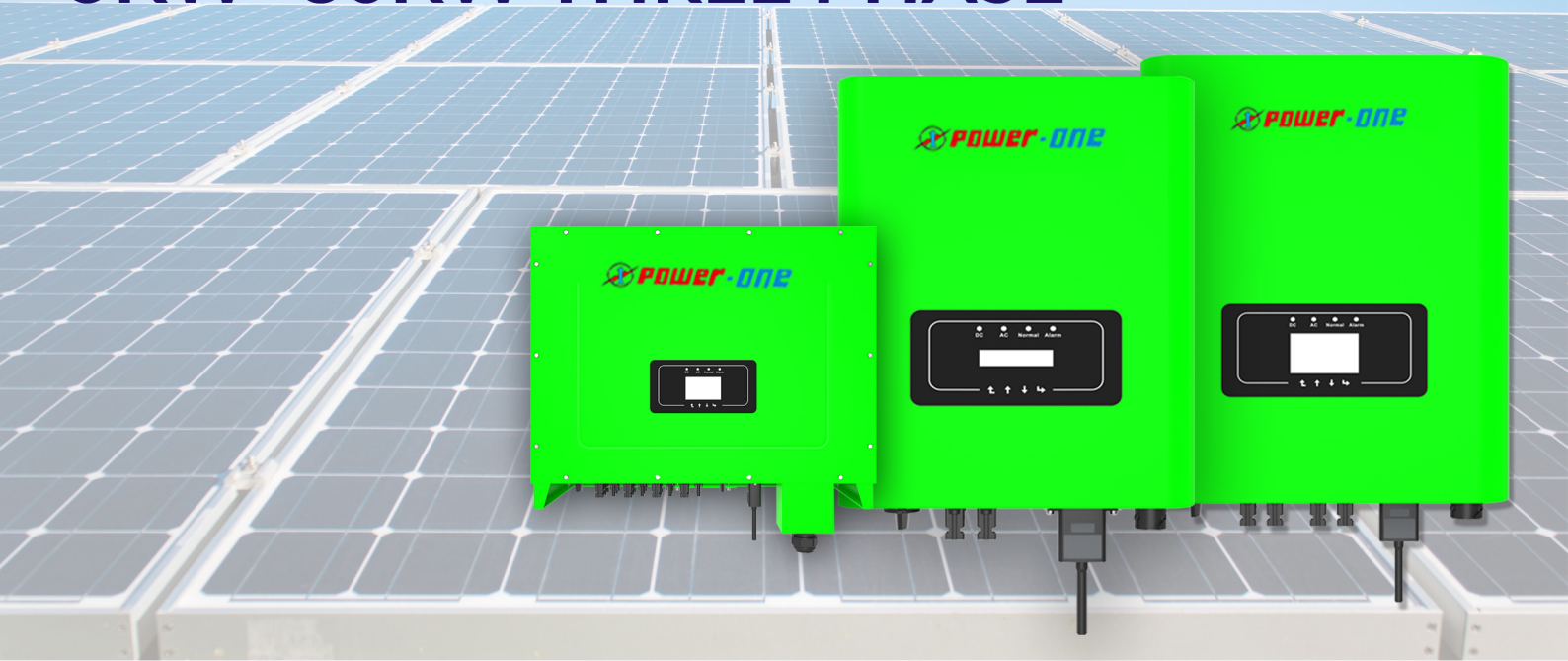
## FEATURES

- 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
<b>Model No.</b>	SGTU-101-N	SGTU-102-N	SGTU-103-SN	SGTU-105N
<b>INPUT</b>				
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			2
Number of Strings	1			
<b>OUTPUT</b>				
Rated Output Power (KW)	1	2	3	5
Rated AC Grid Voltage (V)	230			
AC Grid Voltage Range (V)	140-295			
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%	
<b>PROTECTION</b>				
Available	<ul style="list-style-type: none"> <li>• DC Reverse - Polarity Protection</li> <li>• Output Overvoltage Protection</li> <li>• Surge Protection</li> </ul>	<ul style="list-style-type: none"> <li>• AC Short Circuit Protection</li> <li>• Insulation Resistance Protection</li> <li>• Islanding Protection</li> </ul>	<ul style="list-style-type: none"> <li>• AC Output Overcurrent Protection</li> <li>• Ground Fault Monitoring</li> <li>• Temperature Protection</li> </ul>	
<b>GENERAL DATA</b>				
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%			
<b>IEC STANDARDS</b>				
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			
Ant Islanding	IEC 62116:2014			
Utility Interface	IEC 61727:2004			
EMC	IEC 61000			
<b>FEATURES</b>				
DC Connection	MC-4 Mateable			
AC Connection	IP65 Rated Plug			
Display	LCD			
Interface for GPRS/Wi-Fi Monitoring	RS485 / RS232			

# 5KW- 80KW THREE PHASE



## FEATURES

- 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
  - String Level Monitoring
  - Fuse, SPD for AC & DC Protection

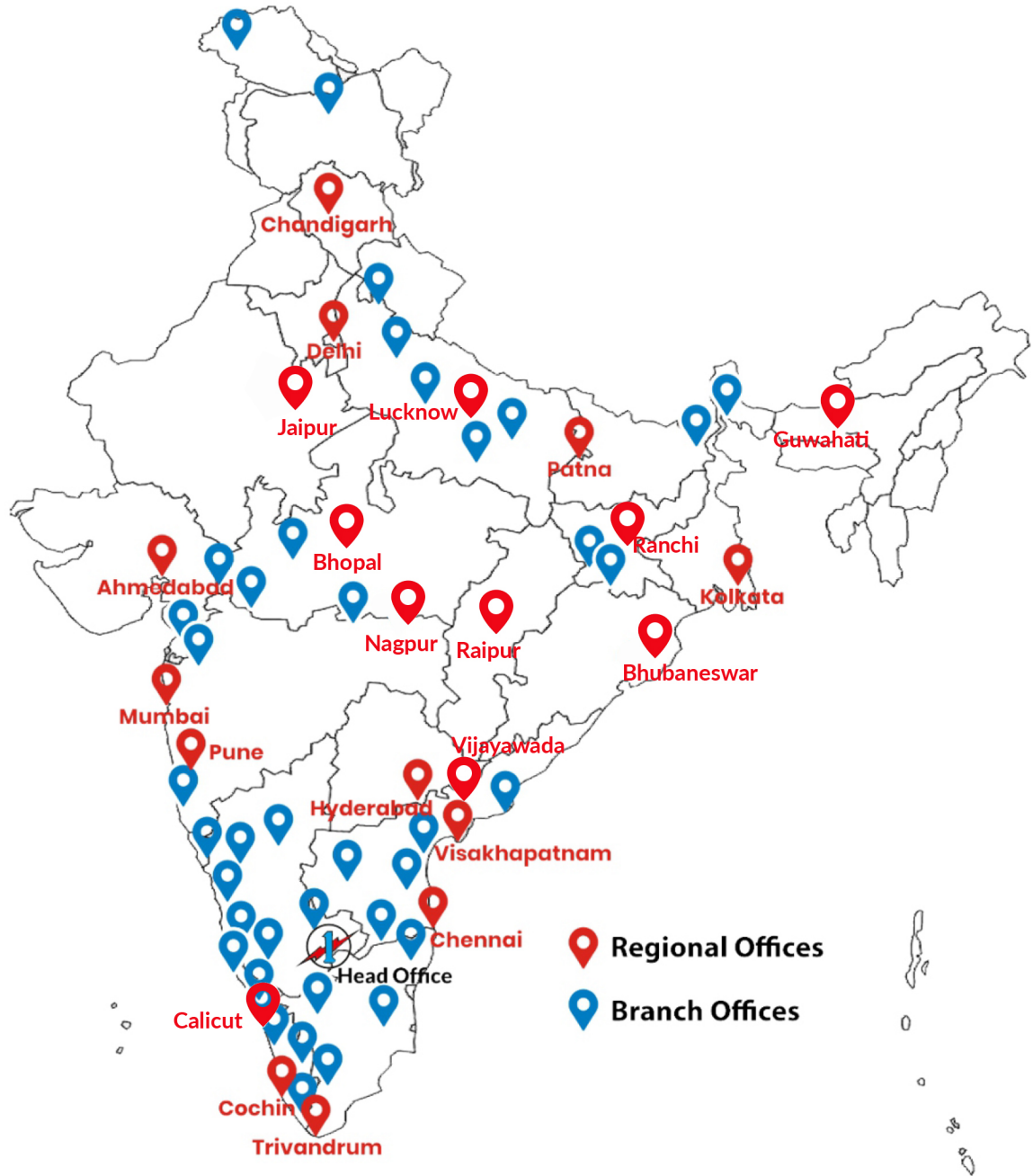
## TECHNICAL SPECIFICATIONS

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
<b>INPUT</b>							
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			
Number of Strings	1				2		
<b>OUTPUT</b>							
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%		
<b>PROTECTION</b>							
Available	<ul style="list-style-type: none"> <li>• DC Reverse - Polarity Protection</li> <li>• Output Overvoltage Protection</li> <li>• Surge Protection</li> </ul>		<ul style="list-style-type: none"> <li>• AC Short Circuit Protection</li> <li>• Insulation Resistance Protection</li> <li>• Islanding Protection</li> </ul>		<ul style="list-style-type: none"> <li>• AC Output Overcurrent Protection</li> <li>• Ground Fault Monitoring</li> <li>• Temperature Protection</li> </ul>		
<b>GENERAL DATA</b>							
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						
Operating Surroundings Humidity	0 - 100%						
<b>IEC STANDARDS</b>							
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						
Ant Islanding	IEC 62116:2014						
Utility Interface	IEC 61727:2004						
EMC	IEC 61000						
<b>FEATURES</b>							
Integrated DC Switch	Available						
DC Connection	MC-4 Mateable						
AC Connection	IP65 Rated Plug						
Display	LCD						
Interface for GPRS/WIFI Monitoring	RS485 / RS232						

## 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
<b>INPUT</b>								
Nominal Input DC Power (KW)	25	33	35	50	60	70	75	80
Max. DC Input Voltage (V)	1000					1100		
Start-up DC Input Voltage (V)	250							
MPPT Operating Range (V)	200-800							
Max. DC Input Current (A)	20A per MPPT		30A per MPPT					
Number of MPPT	2	3		4				
Number of Strings	2	3			4+3+4+3			
<b>OUTPUT</b>								
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%			
<b>PROTECTION</b>								
Available	<ul style="list-style-type: none"> <li>• DC Reverse - Polarity Protection</li> <li>• Output Overvoltage Protection</li> <li>• Surge Protection</li> </ul>		<ul style="list-style-type: none"> <li>• AC Short Circuit Protection</li> <li>• Insulation Resistance Protection</li> <li>• Islanding Protection</li> </ul>		<ul style="list-style-type: none"> <li>• AC Output Overcurrent Protection</li> <li>• Ground Fault Monitoring</li> <li>• Temperature Protection</li> </ul>			
<b>GENERAL DATA</b>								
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	Natural Cooling							
Operating Surroundings Humidity	0 - 100%							
<b>IEC STANDARDS</b>								
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							
Ant Islanding	IEC 62116:2014							
Utility Interface	IEC 61727:2004							
EMC	IEC 61000							
<b>FEATURES</b>								
Integrated DC Switch	Available							
DC Connection	MC-4 Mateable							
AC Connection	IP65 Rated Plug							
Display	LCD							
Interface for GPRS/WIFI Monitoring	RS485 / RS232							

**OUR PRESENCE**



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Srinagar	Bareilly	Mangalore	Shimoga	Kollam	Coimbatore	Siliguri	Vadodara
Kanpur	Gorakhpur	Manipal	Karwar	Kottayam	Davanagere	Gangtok	Nagpur
Allahabad	Indore	Hubli	Vijayapura	Palakkad	Puducherry		Nashik
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		Gulbarga	Nellore				

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Hyderabad- 500082  
Mob: +91- 9010014449  
Tel: +91-40-23356501**03****Ahmedabad**C-45, First Floor,Vishwas City-2,  
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Mob: +91- 9426516831  
Tel: +91-79-27773299 / 27482399**11****Visakhapatnam**50-27-17/4, TPT Colony  
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Beside Padmavathi Hospital,  
Visakhapatnam - 530013  
Mob: +91- 7348939605**04****Chandigarh**H.N. 1121/1, Sector-29B,  
Chandigarh - 160030  
Mob: +91- 8527298891**12****Vijayawada**No.32-15-110/2,Flat No A3,  
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Ratnamamba Street  
Mogalrajpuram  
Vijayawada - 520010  
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School,Pundag, Ranchi - 834004  
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St. Thomas Mount,  
Chennai - 600016  
Mob: +91- 9840275766**06****Patna**Leelavarta Central,2<sup>nd</sup> Floor,  
Near Alpana Market,  
Patliputra,Patna - 800013  
Mob: +91- 9835152630**14****Hubli**No - 12, Hallikeri Building,  
Jayanagar , Vidanagar  
Hubli - 580021  
Mob: +91- 9980566117**07****Mumbai**

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