

# 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
<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	1	1	2
Number of Strings / MPPT	1	1	1	1
<b>OUTPUT</b>				
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%	
<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			
Anti-Islanding	IEC 62116:2014			
Utility Interface	IEC 61727:2004			
EMC	IEC 61000			
<b>FEATURES</b>				
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