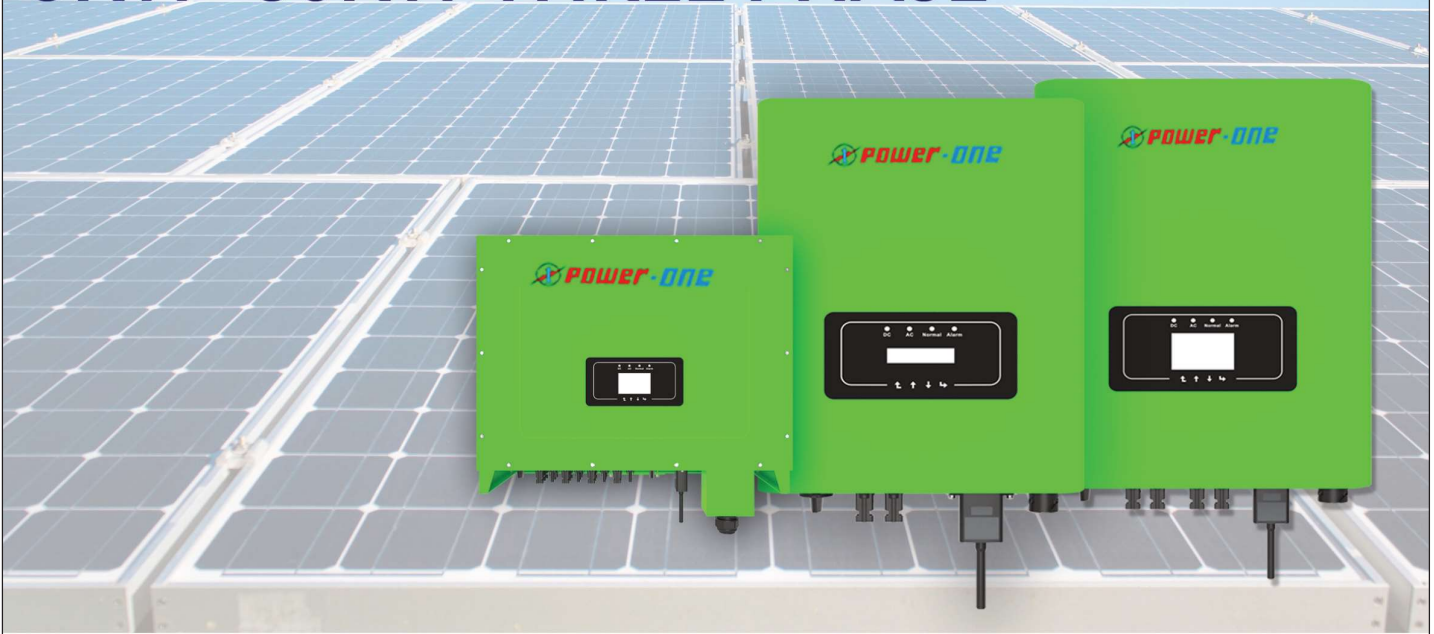


# 5KW- 80KW THREE PHASE



## 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
<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	2	2	2	2	2	2
Number of Strings / MPPT	1	1	1	1	2	(2+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					Forced Air	
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>							
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