

**SOLAR**



**POLYCAB**

*Connection Zindagi Ka*



## **SOLAR GRID - TIE STRING INVERTER**

SINGLE PHASE

### **Leading Features**

- More Reliable & Efficient with World Class Components for 20 Years Design Life
- High Frequency Switching Technology
- Low Start-up Voltage & Ultra Wide MPPT Range for more Power Generation
- Multiple Protection Levels
- THDi <3%
- Max. Efficiency 98.1%
- Built-in Export Power Management for Export Control
- IP65 for outdoor Installation
- Compact Size & Light Weight Design for single person easy installation
- RS-485; Wi-Fi/GPRS/LAN Interface (Optional)
- Free Remote Monitoring on Web Portal & Mobile App
- 5 Years Standard Warranty
- Extendable upto 20 years

### **Solar Grid - Tie String Inverter 1/1.5/2/3/4/5 KW**

(4G Series)

## TECHNICAL SPECIFICATIONS

MODEL	PSIS- 1K	PSIS- 1.5K	PSIS- 2K	PSIS- 3K	PSIS- 4K	PSIS- 5K
RATING	1 KW	1.5 KW	2 KW	3 KW	4 KW	5 KW
<b>INPUT DC</b>						
Max. DC Input Power (kW)	1.2	1.8	2.3	3.5	4.6	5.8
Max. DC Input Voltage (V)	600					
Start-Up Voltage (V)	60		90		120	
MPPT Voltage Range (V)	50 - 500		80 - 500		90-520	
Max. Input Current (A)	11			11 + 11		
Max Short Circuit Current for each MPPT (A)	17.2			17.2+17.2		
MPPT Number / No. of Strings per MPPT	1 / 1			2 / 1		
<b>OUTPUT AC</b>						
Rated Output Power (kW)	1	1.5	2	3	4	5
Max. Apparent Output Power (kVA)	1.1	1.7	2.2	3.3	4.4	5
Max. Output Power (kW)	1.1	1.7	2.2	3.3	4.4	5
Rated Grid Voltage (V)	220 / 230					
Grid Voltage Range (V)	160 - 285 (Adjustable)					
Rated Grid Frequency (Hz)	50 / 60					
Grid Frequency Range (Hz)	47-52 or 57-62					
Operation Phase	Single					
Rated Grid Output Current (A)	4.5/4.3	6.8/6.5	9.1/8.7	13.6/13	18.2/17.4	22.7/21.7
Max. Output Current (A)	5.2	8.1	10.5	15.7	21	25
Power Factor (at rated output power)	0.8 leading ..1.. 0.8 lagging					
THDi (at rated output power)	<3%					
DC Injection Current (mA)	< 0.5% In					
<b>EFFICIENCY</b>						
Max. Efficiency	97.2%		97.5%		98.1%	
EU Efficiency	96.5%		96.8%		97.3%	
MPPT Efficiency	>99.5%					
<b>PROTECTIONS</b>						
Built-in Protections	DC Reverse Polarity, Short Circuit Protection, Output Over Current, Output Over Voltage, Insulation Resistance Monitoring, Residual Current Detection, MOVs for Surge Protection on DC & AC sides, Grid Monitoring, Islanding Protection, Temperature Protection					
<b>GENERAL DATA</b>						
Dimension (mm)	310W*373H*160D			310W*543H*160D		
Weight (kg)	7.4		7.7		11.5	
Topology	Transformerless					
Self Consumption (watt)	< 1 (Night)					
Operating Ambient Temperature Range	-25 ~ 60 °C					
Relative Humidity	0~100%					
Ingress Protection	IP65					
Noise Emission {typical}	<20 dBA					
Cooling Concept	Natural Convection					
Max. Operation Altitude	4000m					
Design life	> 20 Years					
<b>FEATURES</b>						
DC Connection	MC-4 mateable					
AC Connection	IP 67 Rated Plug					
Display	LCD 2×20 Z					
Communication Connections	4 pin RS485 connector					
Monitoring	WiFi / GPRS / LAN					
Warranty	5 Years Standard (Extendable upto 20 years)					
<b>IEC CERTIFICATES</b>						
Grid Connection	IEC 61727					
Anti-Islanding Protection	IEC 62116					
Environmental Testing	IEC 60068-2 (1-2-14-27-30-64)					
Safety	IEC 62109-1, IEC 62109-2, EN62109-1, EN62109-2					
EMC	IEC 61000, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4			EN 61000-6-2, EN 61000-6-3		
Efficiency Measurement	IEC 61683, EN50530					

Note: Specifications are subject to change

**Corporate Office:**

**POLYCAB INDIA LIMITED** (formerly known as 'Polycab Wires Limited')  
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**Solar Division Marketing Office:**

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Authorised Distributor / Dealer