



Connection Zindagi Ka

SOLAR

## SOLAR GRID - TIE STRING INVERTER THREE PHASE



Solar Grid - Tie String Inverter  
5 / 6 / 8 / 10 / 12 / 15 / 17 / 20 KW  
(4G Series)



Solar Grid - Tie String Inverter  
25 - 30 KW  
(2G Series)

### 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 energy generation
- Multiple protection levels
- THDi <1.5%
- Max. efficiency 98.7%
- IP65 for outdoor installation
- Compact size & light weight design for easy installation
- RS-485: Wi-Fi/GPRS/LAN Interface
- Free remote monitoring on web portal & mobile app
- 5 years standard warranty
- Warranty extendable upto 20 years



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# SOLAR GRID-TIE STRING INVERTERS

TECHNICAL SPECIFICATIONS											
MODEL	PSIT-5K	PSIT-6K	PSIT-8K	PSIT-10K	PSIT-12K	PSIT-15K	PSIT-17K	PSIT-20K	PSIT-25K	PSIT-30K	
RATING	5 KW	6 KW	8 KW	10 KW	12 KW	15 KW	17 KW	20 KW	25 KW	30 KW	
<b>INPUT DC</b>											
Max. DC Input Power (kW)	6	7.2	9.6	12	14.5	18	20.4	24	30	36	
Max. DC Input Voltage (V)	1000										
Start-up Voltage (V)	180						350				
MPPT Voltage Range (V)	160-850						200 - 800				
Max. Input Current (A)	11 + 11			22 + 22			18+18+18+18				
Max Short Circuit Current for each MPPT (A)	17.2+17.2			34.3+34.3			23.4+23.4+23.4+23.4				
MPPT Number / No. of Strings per MPPT	2 / 1			2 / 2			4 / 2				
<b>OUTPUT AC</b>											
Rated Output Power (kW)	5	6	8	10	12	15	17	20	25	30	
Max. Apparent Output Power (kVA)	5.5	6.6	8.8	11	13.2	16.5	18.7	22	27.5	33	
Max. Output Power (kW)	5.5	6.6	8.8	11	13.2	16.5	18.7	22	27.5	33	
Rated Grid Voltage (V)	400										
Grid Voltage Range (V)	313 - 470 (Adjustable)										
Rated Grid Frequency (Hz)	50/60										
Grid Frequency Range (Hz)	47-52 or 57-62										
Operation Phase	Three										
Rated Grid Output Current (A)	7.2	8.7	11.5	14.4	17.3	21.7	24.6	28.9	36.1	43.3	
Max. Output Current (A)	7.9	9.5	12.7	15.9	19.1	23.8	27	31.8	41.7	50	
Power Factor (at rated output power)	0.8 leading ..1.. 0.8 lagging										
THDi (at rated output power)	<1.5%						<3%				
DC Injection Current (mA)	<0.5%In										
<b>EFFICIENCY</b>											
Max. Efficiency	98.3%		98.7%		98.7%			98.6%			
EU Efficiency	97.8%		98.1%		98.1%			98.3%			
MPPT Efficiency	>99.5%						>99.9%				
<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										
Integrated DC Switch	YES										
<b>GENERAL DATA</b>											
Dimension (mm)	310W*563H*219D						530W*700H*356.5D				
Weight (kg)	17.3		18		18.9		19.8		58.2		
Topology	Transformerless										
Self Consumption (watt)	<1 (Night)										
Operating Ambient Temperature Range	-25 to 60°C										
Relative Humidity	0~100%										
Ingress Protection	IP65										
Noise Emission (typical)	<30 dBA										
Cooling Concept	Natural Cooling				Intelligent fan-cooling			Natural Cooling			
Max. Operation Altitude	4000m										
Design Life	>20 Years										
<b>FEATURES</b>											
DC Connection	MC-4 mateable										
AC Connection	IP 67 Rated Plug							Terminal Connectors			
Display	LCD 2x20 Z							7" LCD Colour Screen			
Communication; Monitoring Interface	RS485; 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)							IEC 60068-2 (1-2-14-30)			
Safety	IEC 62109-1, IEC 62109-2, EN 62109-1, EN 62109-2										
EMC	IEC 61000, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4										
Efficiency Measurement	IEC 61683, EN 50530							IEC 61683			

Note: Specifications are subject to change

**Corporate Office:**

**POLYCAB INDIA LIMITED** (formerly known as Polycab Wires Limited)  
 Polycab house, 771 Mogul lane, Mahim (W), Mumbai 400 016.  
 Email: solar@polycab.com | Web: www.polycab.com

**For Consumer Complaint Contact : Officer, Consumer Care Cell**

Polycab House, 771, Mogul Lane, Mahim (W), Mumbai 400 016, Maharashtra, India.  
 Tel: 91-22-2432 7070 - 4,6735 1400 | Fax: 91-22-24327075  
 Email: customercare@polycab.com  
 Website: www.polycab.com | Toll Free No.: 1800 267 0008

**Solar Division Marketing Office:**

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Authorised Distributor / Dealer