



POLYCRAB

Connection Zindagi Ka

SOLAR

SOLAR GRID - TIE STRING INVERTERS 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 (Optional) • Free Remote Monitoring on Web Portal & Mobile App
- 5 Years Standard Warranty • Warranty Extendable upto 20 Years

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	
INPUT DC											
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										
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			
OUTPUT AC											
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										
EFFICIENCY											
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%		
PROTECTIONS											
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										
GENERAL DATA											
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 redundant fan-cooling			Natural Cooling		
Max.Operation Altitude	4000m										
Design Life	>20 Years										
FEATURES											
DC Connection	MC-4 mateable										
AC Connection	IP 67 Rated Plug								Terminal Connectors		
Display	LCD 2x20 Z								7" LCD Colour Screen		
Monitoring Interface	WiFi / GPRS / LAN (Optional)										
Warranty	5 Years Standard (Extendable upto 20 Years)										
IEC CERTIFICATES											
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

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Solar Division Marketing Office:

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Authorised Distributor / Dealer