


SOLAR GRID - TIE STRING INVERTER


POLYCARB
SOLAR



**Solar Grid - Tie String
Inverter 5 / 6 / 8 / 10 KW**

**Solar Grid - Tie String
Inverter 12 / 15 / 17 / 20 KW**

**Solar Grid - Tie String
Inverter 25 - 30 KW**

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 and Light Weight Design for Easy Installation
- RS-485; Wi-Fi/GPRS/LAN Interface (Optional) • Remote Monitoring on Web Portal & Mobile App
- 5 Years Standard Warranty • Warranty Extendable upto 20 Years

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POLYCARB
CONTACT (Toll Free No.) 1800 267 0008

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 + 11			22 + 22		18+18+18+18	
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									
Grid Frequency Range (Hz)	47-52									
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)	8.4	10	13.4	16.7	20.1	25.1	28.4	33.5	41.7	47.8
Power Factor (at rated output power)	0.8leading ..1.. 0.8lagging									
THDi (at rated output power)	<1.5%								<3%	
DC Injection Current (mA)	<0.5%In								< 50	
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%									
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*538H*158D				310W*563H*219D			530W*700H*356.5D		
Weight (kg)	13.6		14.1		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 (1-2-14-30)									
Safety	IEC 62109-1, IEC 62109-2									
EMC	IEC 61000, EN61000-6-1:2007, EN61000-6-3:2007									
Efficiency Measurement	IEC 61683									

Note: Specifications are subject to change

Corporate Office:

POLYCAP 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
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Solar Division Marketing Office:

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