



Connection Zindagi Ka

SOLAR

## SOLAR GRID - TIE 25KW - 40KW - 5G STRING INVERTERS THREE PHASE



### LEADING FEATURES

- 3/4 MPPT design with precise algorithm, effectively reducing string mismatch.
- 8 strings intelligent monitoring
- Smart I-V Curve Diagnosis supported
- Fuse free design to avoid hazard
- Low start-up voltage & Ultra-wide MPPT range for more energy generation.
- 30% DC Overload, 13A input for each PV string
- THDi<3%, Low harmonic distortion
- Max. Efficiency 98.8%
- Leakage current repression technology
- Volt-Watt work mode integrated
- IP65 for outdoor Installation
- Type II surge arrester for both DC and AC side
- RS-485, Ethernet; Wi-Fi/GPRS/LAN monitoring interface
- Free remote monitoring on Web portal and Mobile App
- 5 Years standard Warranty, Extendable upto 20 Years.

# SOLAR GRID-TIE STRING INVERTERS

TECHNICAL SPECIFICATIONS				
MODEL	PSIT- 25K	PSIT- 30K	PSIT- 33K	PSIT- 40K
Rating	25 KW	30 KW	33 KW	40 KW
<b>INPUT DC</b>				
Max. DC Input Power (kW)	33	39	43	52
Max. DC Input Voltage (V)	1100			
Rated Voltage (V)	600			
Start-Up Voltage (V)	180			
MPPT Voltage Range (V)	200-1000			
Max. Input Current (A)	26+26+26			26+26+26+26
Max. Short Circuit current for each MPPT (A)	40+40+40			40+40+40+40
MPPT Number / No. of Strings per MPPT	3/2			4/2
<b>OUTPUT AC</b>				
Rated Output Power (kW)	25	30	33	40
Max. Apparent Output Power (kVA)	27.5	33	36.3	44
Max. Output Power (kW)	27.5	33	36.3	44
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	3/N/PE			
Rated Grid Output Current (A)	36	43.3	47.6	57.7
Max. Output Current (A)	41.8	50.2	55.1	66.9
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	98.8%			
EU Efficiency	98.3%			
MPPT Efficiency	>99.5%			
<b>PROTECTIONS</b>				
Built-in Protections	DC Reverse Polarity Protection, Short Circuit Protection, Output Over Current Protection, Output Over Voltage Protection, Insulation Resistance Monitoring, Residual Current Detection, Surge Protection through SPDs, DC side Type II/AC side Type II, Grid Monitoring, Islanding Protection, Temperature Protection			
Integrated DC Switch	Yes			
String Monitoring	Yes			
Anti-PID	Optional			
<b>GENERAL DATA</b>				
Dimension (mm)	647W*629H*252D			
Weight (kg)	45			
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 Convection			
Max. Operation Altitude	4000m			
Design Life	> 20 Years			
<b>FEATURES</b>				
DC Connection	MC-4 Mateable			
AC Connection	Terminal board			
Display	LCD, 2x20 Z			
Communication Connections	RS 485, Ethernet			
Monitoring Interface	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 61000-6-1(2-3-4), EN 61000-6-1 (2-3-4)			
Efficiency Measurement	IEC 61683, EN50530			

Note: Specifications are subject to change

**POLYCAB INDIA LIMITED** (formerly known as Polycab Wires Limited)  
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