



POLYCAP

Connection Zindagi Ka

SOLAR

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



LEADING FEATURES

- 4 MPPT design with precise MPPT algorithm, effectively reducing string mismatch
- 8 strings intelligent monitoring, Smart I-V Curve Diagnosis supported
- Fuse free design to avoid fire hazard
- Low Start-Up Voltage & Ultra Wide MPPT Range for More Energy Generation
- 30% DC overload, 13A input for each PV string
- THDi <3%
- Max. Efficiency 98.8%
- IP65 For Outdoor Installation
- Type II surge arrester for both DC and AC side
- RS-485; Wi-Fi/GPRS/LAN Interface (Optional)
- Free remote Monitoring on Web Portal and Mobile App
- 5 Year Standard Warranty. Extendable upto 20 years



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SOLAR GRID-TIE 25KW - 40KW - 5G STRING INVERTERS

TECHNICAL SPECIFICATIONS

MODEL	PSIT- 25K	PSIT- 30K	PSIT- 33K	PSIT- 36K	PSIT- 40K
Rating	25 KW	30 KW	33 KW	36 KW	40 KW
INPUT DC					
Max. DC Input Power (kW)	33	39	43	47	52
Max. DC Input Voltage (V)	1100				
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	3/6			4/8	
OUTPUT AC					
Rated Output Power (kW)	25	30	33	36	40
Max. Apparent Output Power (kVA)	27.5	33	36.3	39.6	44
Max. Output Power (kW)	27.5	33	36.3	39.6	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	51.9	57.7
Max. Output Current (A)	41.8	50.2	55.1	60.2	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				
EFFICIENCY					
Max. Efficiency	98.8%				
EU Efficiency	98.3%				
MPPT Efficiency	>99.5%				
PROTECTIONS					
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				
GENERAL DATA					
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				
FEATURES					
DC Connection	MC-4 Mateable				
AC Connection	Terminal board				
Display	LCD, 2x20 Z				
Communication Connections	4 Pins RS485 Connector				
Monitoring	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)				
Safety	IEC 62109-1, IEC 62109-2				
EMC	IEC 61000, EN61000-6-2, EN61000-6-3				
Efficiency Measurement	IEC 61683, EN50530				

Note: Specifications are subject to change

POLYCAP INDIA LIMITED (formerly known as Polycab Wires Limited)
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Authorised Distributor / Dealer