



POLYCARB

Connection Zindagi Ka

SOLAR

SOLAR GRID - TIE 80 KW - 5G STRING INVERTER THREE PHASE



LEADING FEATURES

- Over 98% Max. efficiency
- Wide Voltage range and low startup voltage
- Supports 30% DC Overload, 9 MPPT design with precise MPPT algorithm
- THDi < 3%, Low harmonic distortion
- IP66 for outdoor Installation
- Transformerless Inverter
- Anti-resonance, supporting over 6MW paralleled in one transformer
- Intelligent fan cooling
- High precision intelligent strings monitoring
- Smart I-V Curve Diagnosis supported
- Fuse free design to avoid hazard
- Type II surge arrester for both DC and AC side
- Leakage current repression technology
- Volt-Watt work mode integrated
- DC input reverse alarm
- Integrated DC and AC disconnect switches
- RS-485, Ethernet; Wi-Fi/GPRS/LAN; PLC (optional) monitoring interface
- Free remote monitoring on Web portal and Mobile App
- 5 Years standard Warranty, Extendable upto 20 Years

SOLAR GRID - TIE STRING INVERTER

TECHNICAL SPECIFICATIONS	
MODEL	PSIT- 80K
Rating	80 KW
INPUT DC	
Max. DC Input Power (kW)	120
Max. DC Input Voltage (V)	1100
Rated Voltage	600
Start-Up Voltage (V)	195
MPPT Voltage Range (V)	180-1000
Max. Input Current (A)	9*26
Max Short Circuit Current for each MPPT (A)	9*40
MPPT Number / No.of Strings per MPPT	9/2
OUTPUT AC	
Rated Output Power (kW)	80
Max. Apparent Output Power (kVA)	88
Max. Output Power (kW)	88
Rated Grid Voltage (V)	3/N/PE, 380/400
Grid Voltage Range (V)	304-460
Rated Grid Frequency (Hz)	50/60
Grid Frequency Range (Hz)	47-52 or 57-62
Rated Grid Output Current (A)	121.6
Max.Output Current (A)	133.7
Power Factor (at rated output power)	>0.99 (Adjustable 0.8 leading ..1.. 0.8 lagging)
THDi (at rated output power)	<3%
DC Injection Current (mA)	<0.5%In
EFFICIENCY	
Max. Efficiency	98.7%
EU Efficiency	98.3%
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, Islanding Protection, Temperature Protection, Grid Monitoring
Surge Protection (DC/AC)	Type II/Type II
I/V Curve scanning	Yes
Integrated DC Switch	Yes
Integrated AC Switch	Optional
String Monitoring	Yes
Anti - PID Function	Optional
Integrated AFCI (DC arc-fault circuit protection)	Optional
GENERAL DATA	
Dimension (mm)	1050W*567H*314.5D
Weight (kg)	82
Topology	Transformerless
Self Consumption (watt)	<2 (Night)
Operating Ambient Temperature Range	-25 to 60°C
Relative Humidity	0~100%
Ingress Protection	IP 66
Noise Emission {typical}	<65 dB
Cooling Concept	Intelligent Fan-cooling
Max.Operation Altitude (m)	4000
Design Life	>25 Years
FEATURES	
DC Connection	MC-4 Mateable
AC Connection	OT Terminal Connectors
Display	LCD, 2*20 Z
Communication Connections	RS-485, Ethernet; PLC (Optional)
Monitoring Interface	WiFi/GPRS/LAN
OTA update	Yes
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 61000-6-2, IEC 61000-6-4, EN61000-6-2, EN61000-6-4
Efficiency Measurement	IEC 61683,EN50530

Note: Specifications are subject to change

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:
POLYCAB INDIA LIMITED (formerly known as Polycab Wires Limited)
Off. No. 34, Sangam Project Phase-2, Near RTO Pune,
Near Sangam Bridge, Pune- 411001.

Authorised Distributor / Dealer