



POLYCAP

Connection Zindagi Ka

SOLAR

SOLAR GRID - TIE 80KW-100KW-110KW-5G STRING INVERTERS THREE PHASE



LEADING FEATURES

- Maximum Efficiency 98.7%
- Wide Voltage range and low startup voltage
- Supports 50% DC overload, 9/10 MPPT design with precise MPPT algorithm
- THDi < 3%, Low Harmonic Distortion
- IP66 for outdoor Installation
- Anti-resonance, supporting over 6MW paralleled in one transformer
- Intelligent Fan Cooling
- High precision intelligent string monitoring
- Night SVG function
- Smart I-V Curve Diagnosis supported
- Fuse free design to avoid hazard
- Type II SPD for both DC and AC side
- Leakage current repression technology
- Volt-Watt work mode integrated
- DC input reverse alarm
- Integrated DC and AC (optional) disconnect switches
- RS-485, Ethernet; Wi-Fi/GPRS/LAN; PLC (optional) monitoring interface
- Support "Y" type connection in DC side
- Supports aluminium wire access to reduce cost
- Free remote monitoring on Web Portal and Mobile App
- 5 Years standard warranty, extendable upto 20 years

TECHNICAL SPECIFICATIONS

MODEL	PSIT- 80K	PSIT- 100K	PSIT- 110K
Rating	80 KW	100 KW	110 KW
INPUT DC			
Max. DC Input Power (kW)	120	150	165
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	10*26	
Max Short Circuit Current for each MPPT (A)	9*40	10*40	
MPPT Number / No.of Strings per MPPT	9/2	10/2	
OUTPUT AC			
Rated Output Power (kW)	80	100	110
Max. Apparent Output Power (kVA)	88	110	121
Max. Output Power (kW)	88	110	121
Rated Grid Voltage (V)	3/N/PE, 220/380, 230/400		
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	152	167.1
Max. Output Current (A)	133.7	167.1	183.8
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%		
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, 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	Yes	Optional	
String Monitoring	Yes		
Anti - PID Function	Yes		
Integrated AFCI (DC arc-fault circuit protection)	Yes		
GENERAL DATA			
Dimension (mm) (W/O AC Switch)	1014W*567H*314.5D	1065W*567H*344.5D	
Weight (kg)	82	84	
Topology	Transformerless		
Self Consumption (watt)	< 2 (Night) (Without Anti-PID)		
Operating Ambient Temperature Range	-25 to 60°C		
Relative Humidity	0~100%		
Ingress Protection	IP66		
Noise Emission {typical}	< 65dB		
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 (max 185 mm ²)		
Display	LCD, 2x20 Z		
Communication Interface	RS485, Ethernet, PLC (Optional)		
Monitoring	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 - 27 - 30 - 64)		
Safety	IEC 62109 - 1, IEC 62109 - 2, EN 62109 - 1, EN 62109-2		
EMC	IEC 61000-6-2, IEC 61000-6-4, EN61000-6-2, EN61000-6-4, IEC 61000-3-5, IEC 61000-3-12		
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, Maharashtra (India) | Email: solar@polycab.com | www.polycab.com

For Consumer Complaint Contact: Officer, Corporate Care Cell
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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



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Connection Zindagi Ka

SOLAR

SOLAR GRID-TIE 50KW & 60KW STRING INVERTERS THREE PHASE



LEADING FEATURES

- Transformerless Inverter
- Maximum Efficiency Over 98.9%, EU Efficiency Over 98.5%
- Wide MPPT Voltage Range with 4 MPPT Design and Precise MPPT Algorithm
- IP 65 Certified
- Low Harmonic Distortion, THDi < 3%
- Integrated DC Switch
- Intelligent Fan-Cooling
- 5 Years Standard Warranty With Extended Warranty Option
- Onboard SPDs For DC & AC Sides
- Free Remote Monitoring on Web Portal & Mobile App

SOLAR GRID-TIE STRING INVERTERS

TECHNICAL SPECIFICATIONS		
MODEL	PSIT - 50K	PSIT - 60K
Rating	50 KW	60 KW
INPUT SIDE (DC)		
Max. DC Input Power (kW)	60	72
Max. DC Input Voltage (V)	1100	
Start-up Voltage (V)	200	
MPPT Voltage Range (V)	200-1000	
Max. Input Current (A)	28.5A+28.5A+28.5A+28.5A	
Max Short Circuit Current for each MPPT (A)	44.5+44.5+44.5+44.5	
MPPT Number / No. of Strings per MPPT	4/3	
OUTPUT SIDE (AC)		
Rated Output Power (kW)	50	60
Max. Apparent Output Power (kVA)	55	66
Max. Output Power (kW)	55	66
Rated Grid Voltage (V)	400	400
Grid Voltage Range (V)	304-460	304-460
Rated Grid Frequency (Hz)	50/60	
Operation Phase	Three	
Rated Grid Output Current (A)	72.2	86.6
Max. Output Current (A)	83.3	100
Power Factor (at Rated Output power)	0.8 leading ..1.. 0.8 lagging	
THDi (at Rated Output Power)	<3%	
DC Injection Current	<0.5% In	
Grid Frequency Range (Hz)	47-52 or 57-62	
EFFICIENCY		
Max. Efficiency	98.80%	99.00%
EU Efficiency	98.40%	98.50%
MPPT Efficiency	> 99.90%	
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 & Monitoring, Islanding Protection, Temperature Protection, surge protection through SPDs on both AC and DC sides, Grid Monitoring	
Integrated DC switch	YES	
GENERAL DATA		
Dimensions (mm)	630W*700H*357D (mm)	
Weight (kg)	63	
Topology	Transformerless	
Self Consumption (Night)	<1W(Night)	
Operating Ambient Temperature Range	- 25° to 60° C	
Ingress Protection	IP 65	
Noise Remission {Typical}	<60 dBA	
Cooling Concept	Intelligent Fan-Cooling	
Max. Operation Altitude	4000m	
Design Life	>20Years	
Relative Humidity	0~100%	
FEATURES		
DC Connection	MC-4Mateable	
AC Connection	OT Terminal Connectors	
Display	LCD,2×20 Z	
Communication Connections	4 Pins RS485 Connector, 2 RJ45 Connector, 2 Group of Terminal Block	
Monitoring Interface	LAN / Wifi / GPRS	
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, EN 62109-1, EN 62109-2	
EMC	IEC 61000, EN 61000-6-2, EN 61000-6-4	
Efficiency Measurement	IEC 61683, EN50530	

Note: Specifications are subject to change

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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
INPUT DC				
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
OUTPUT AC				
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			
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	RS 485, Ethernet			
Monitoring Interface	WiFi / GPRS / LAN			
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, EN62109-1, EN62109-2			
EMC	IEC 61000-6-1(2-3-4), EN 61000-6-1 (2-3-4)			
Efficiency Measurement	IEC 61683, EN50530			

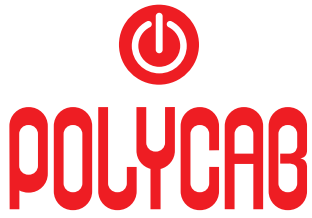
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SOLAR GRID - TIE STRING INVERTER THREE PHASE



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
- Free remote monitoring on web portal & mobile app
- 5 years standard warranty
- Warranty extendable upto 20 years



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SOLAR GRID-TIE STRING INVERTERS

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						200 - 800				
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 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			
Communication; Monitoring Interface	RS485; WiFi / GPRS / LAN										
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			

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