



## **SOLAR GRID-TIE STRING INVERTER**

*'Empowering Your Life'*



### **LEADING FEATURES**

- Transformerless Inverter
- Over 98.3% Max. efficiency
- Ultra wide input voltage range
- Dual MPPT design with precise MPPT algorithm
- Compact and light design for one-person easy installation
- IP65, visually pleasing for domestic environment
- RS 485, Wi-Fi /GPRS (optional) Interface
- Multiple protection levels
- Wi-Fi and monitoring app available
- 5 years standard warranty

## TECHNICAL SPECIFICATIONS

	PSIS SERIES (10)						PSIT SERIES (30)							
MODEL	PSIS-1K	PSIS-1.5K	PSIS-2K	PSIS-3K	PSIS-4K	PSIS-5K	PSIT-6K	PSIT-10K	PSIT-15K	PSIT-20K	PSIT-25K	PSIT-30K	PSIT-36K	PSIT-40K
INPUT SIDE														
Maximum Input Power (kW)	1.2	1.8	2.4	3.5	4.6	5.8	6.9	11.5	16.5	23	28	34	41	45
Maximum Input Voltage (V)	450		500	600			1000							
Startup Input Voltage (V)	60			120			330			350				
Maximum Input DC Voltage Range (V)	50-400			100-500			200-800			200-850				
Maximum Input Current (A)	10			10+10	15+15		15+15	18+18		18+18+18+18				
MPPT Number / No. of Strings per MPPT	1,1			2,1			2,1	2,2		4,2				
OUTPUT SIDE														
Rated Output Power (kW)	1	1.5	2	3	4	5	6	10	15	20	25	30	36	40
Rated AC Grid Voltage (V)	220/230/240						380/400			400	380/400		480	
AC Grid Voltage Range (V)	180-270 (Adjustable)						313-470 (Adjustable)			304-460 (Adjustable)			384-576 (Adjustable)	
Operating Phases	Single Phase						Three Phase							
Nominal AC Output Current (A)	4.3	6.5	8.7	13	17.4	21.7	8.7	14.5	21.7	28.7	36.1	43.3	43.3	48.1
Maximum AC Output Current (A)	6.1	9.2	12.2	15.7	21	23.8	10	16.7	25	33.3	41.7	47.8	47.8	52.9
Output Power Factor	>0.99						0.8 leading... 0.8 lagging							
Grid Current THD	< 3%						< 3%							
DC Injection Current (mA)	< 20						< 20		<50					
Rated Grid Frequency (Hz)	50						50							
Operating Frequency Range (Hz)	47 - 52						47 - 52							
EFFICIENCY														
Max Efficiency	96.7%			97.5%	97.8%		98.2%		98.3%	98.6%				
Euro Efficiency	96.2%			96.8%	97%		97.3%		97.5%	98.3%				
MPPT Efficiency	>99.50%						>99.50%							
PROTECTIONS														
Built-in Protections	DC Reverse Polarity, Short Circuit, Output Over Voltage, Output Over Current, Insulation Resistance Monitoring, Residual Current Detection, Surge Protection, Grid Monitoring, Islanding Protection, Temperature Protection													
GENERAL DATA														
Dimensions (mm)	270W X 433H X 105D			339W X 565H X 172.5D			430W X 613H X 269D			530W X 700H X 356.5D				
Weight (Kg)	5.2	5.6		13.8	15.8		29		30	57.2	58.2			
Topology	Transformerless						Transformerless							
Self Consumption (Watt) (Night)	< 1						< 1							
Ingress protection	IP 65						IP 65							
Noise emission (dBA)	< 30 (Typical)						< 30 (Typical)							
Cooling	Natural Cooling						Natural Cooling							
Maximum Operational Altitude (Mtrs.)	4000						4000							
Resigned Life (Years)	>20						>20							
Operating Ambient Temperature Range	-25 to 60°C						-25 to 60°C							
Operating Surrounding Humidity	0 - 100%						0 - 100%							
FEATURES														
DC Connection	MC4-Connector													
AC Connection	IP67 Rated Plug						IP67 Rated Plug			Terminal Connectors				
Display	LCD 2 X 20Z						LCD 2 X 20Z			7" LCD Colour Screen				
Interface	RS 485, Wi-Fi / GPRS (optional)													
CERTIFICATE														
Grid Connection	IEC 61727, EN50438, VDE0126-1-1, AS477, G83/2, G59/3													
Anti-islanding protection	IEC 62116													
Environmental testing	IEC 60068-2													
Safety	IEC 62109-1/2, AS3100													
EMC	IEC61000; EN61000-6-1:2007; EN61000-6-3-2007													

Note: Specifications are subject to change

### Corporate Office:

**POLYCAP WIRES PVT. LTD.**

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:

**POLYCAP WIRES PVT. LTD.**

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Near Sangam Bridge, Opp. Air India Office, Pune- 411001.

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