

SOLAR GRID -TIE STRING INVERTER

TECHNICAL SPECIFICATIONS

PSIS SERIES (1Ø)							PSIT SERIES (3Ø)								
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	
Rating	1 KW	1.5 KW	2 KW	3 KW	4 KW	5 KW	6 KW	10 KW	15 KW	20 KW	25 KW	30 KW	36 KW	40 KW	
INPUT SIDE (DC)															
Maximum Input Power (kW)	1.2	1.8	2.4	3.6	4.8	6	7.2	12	18	24	30	36	43	48	
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 (AC)															
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						400			400	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								
Designed 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														
Anti-Islanding Protection	IEC 62116														
Environmental Testing	IEC 60068-2 (1-2-14-30)														
Safety	IEC 62109-1/2														
Efficiency Measurement	IEC 61683														
EMC	IEC61000; EN61000-6-1:2007; EN61000-6-3:2007														

Note: Specifications are subject to change

Corporate Office:

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Solar Division Marketing Office:

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