

**WIDE RANGE OF
GRID-TIE INVERTER**
Best Rooftop Solutions



PATANJALI

Anant Urja Srot...

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Specifications

- ÿ Clean Sinewave Distortion
- ÿ Latest Quadcore Processor
- ÿ More Effective and Faster
- ÿ SVPWM Technology Based
- ÿ Latest Texas DSP

APPLICATION



Home Appliance



Rural Electrification



Farm Houses



Hospitals



Gas pipelines



Railway Signalling



WIDE RANGE OF GRID-TIE INVERTER BEST ROOFTOP SOLUTIONS

	SINGLE PHASE INVERTERS 1KW TO 5KW						THREE PHASE INVERTERS (5 TO 25)						THREE PHASE INVERTERS 33KW TO 75KW						
Model No.	PSI-1KW	PSI-1.5KW	PSI-2.2KW	PSI-3.2KW	PSI-4.2KW	PSI-5.2KW	PSI-5KW	PSI-6KW	PSI-10KW	PSI-15KW	PSI-20KW	PSI-25KW	PSI-33KW	PSI-35KW	PSI-40KW	PSI-50KW	PSI-60KW	PSI-70KW	PSI-80KW
Input (DC)																			
Max. DC I/P Power (KW)	1.2	1.7	2.4	3.5	4.5	5.5	6	7	12	17.5	22	28	36	38.5	44	55	66	81.5	82.5
Max. DC I/P (V dc)	550V DC						550V DC						1000V DC						
Max. MPPT I/P Current(A)	10A			10A + 10A			20A						28.5A						
MPPT Short Circuit	15A			15A + 15A			26Amps.						37Amps.						
MPPT Tracking Voltage (Vdc)	70-500V						200-1000V												
Min. Start/Shut down (V)	70 VDC / 100 VDC(Low) & 500 VDC (High)						250 VDC/150 VDC (Low) & 1000 VDC (High)												
Number of MPPT Tracker	1			2			1/2			2			2			2/3/4			
Strings per MPPT Trackers	1			1			2			2			3			3			
Input (DC)																			
Nominal output power (KW)	1	1.5	2.2	3.2	4.2	5.2	5	6	10	15	20	25	33	35	40	50	60	70	80
Max output power (KW)	1.1	1.6	2.3	3.3	4.3	5.3	5.5	6.6	11	16.5	21	26	36	38.5	42	52	66	77	82.5
Nominal Grid Voltage (V)	140-290V User Defined						320-470V User Defined												
Nominal Grid Freq. (Hz)							47-55 HZ Auto Selection												
Max. output current AC(A)	5	7.5	9	14	18	23	8	9	15	22	29	36	47.8	51	58	72.4	91	100	114
AC connection (With PE)	P + N + E						3P + N + E												
THD (%)							<2.3%												
Power factor (%)							>99.99% (User Defined from 0.85 to 0.99)												
Efficiency																			
Max. conversion eff. (%)	98.5	98.6	98.6	98.7	98.7	98.8	99	98.6	98.8	99	98.7	98.7	98.7	98.7	98.6	98.6	98.9	98.9	98.9
Max. EURO Efficiency (%)	98	98.1	98.2	98.3	98.3	98.3	98	98.1	98.3	98.5	98.2	98.2	98.2	98.2	98.1	98.2	98.2	98.2	98.2
Max. MPPT Efficiency (%)	<99%																		
Standards, Safety & Protections																			
Protection & Safety	DC Reverse - Polarity, DC High/Low/Over Current/Short Protection, DC/AC Side type-2 SPD, Temperature Protected, GDT, Static ELCB/RCCB, User Define Grid Monitoring Setting & Anti Islanding																		
SPD	Type-3 SPD						Type - 2 & Type - 3 SPD												
MPPT Efficiency	EN 50530																		
Inverter Efficiency	IEC 61685																		
Protection Class	1 (According to IEC 62103																		
Over Voltage Category	PVII / Mains II (According to IEC 62109-1)																		
Safety Standard	IEC 62109-1&2																		
EMC Standard	IEC 61000-6-1/2/3/4																		
Environment Protection	IEC 60068-2-1/2/14/15																		
Product Safety for relay	IEC 60255-27:2013																		
Anti-Islanding	IEC-62116																		
Ingress	IP 65 (Accordance to IEC 60529)																		
Physical Parameters																			
Dimensions (WxHxD) mm	385 x 490 x 180			385 x 490 x 180			385x490x180			430 x 600 x 220			430 x 600 x 200						
Weight (Kg)	25			25			26			30			57 60 60 62 65 68 70						
Standards, Safety & Protections																			
Operating Temperature	MINUS 25 to PLUS 60 Degree																		
Design Life	Over 25 Years																		
Night Con. (W) Noise Level	<0.2/<25dB																		
Heat Dissipation	Natural Convection																		
RH/Max. Altitude	0% to 98% No Condensation /<2000 without power derating																		
Display	LED with LCD Display																		
DC/AC Connectors	MC-4/IP-65 Plug																		
Communication Interface	RS 485/RS232/Hotspot/Wifi/GPRS/ETHERNET LAN																		
Standard Warrnaty	5 Years						5 Years/10 Years (For Selected Model)												