



5G -PRO- Technical Datasheet



- Wide DC & AC voltage Range
- 3 Level IGBT Technology
- High surge carrying Capacity
- Special AI Die cast Heat Sink .
- Suitable for high watt peak panels Mono Perc & Bifacial.
- Highest Derating temp = 60°C with SNHM technique.
- 100% Inhouse R&D, Production & testing Facility at Pune .



INDIAN COMPANY

Solar Grid Tie Inverter

	Single Phase (2Kw - 6.2KW)										Three Phase (3Kw - 10Kw)							
Model (KSY) (KW)	2	2.3	3	3.3/3.4	4	4/4.2	4.4/4.6	5	5.4	6	6.2	3	4	5	6	7	8	10
Input (DC)																		
Max Peak DC Input Power (KW)	2.4	2.76	3.6	3.96	4	4.8	4.8	6	7.2			3.60	4.80	6.00	7.20	8.40	9.60	12.00
Max. DC I/P (V dc)	500Vdc			550Vdc			500Vdc						1000Vdc					
Max. MPPT I/P Current(A)	13A										20A							
MPPT Short Circuit Current (A)	20A										26A							
MPPT Tracking Voltage (Vdc)	80-500V				100-550V		100-500V						200-1000V					
Min. Start Voltage (V)	80Vdc				100Vdc						250VDC							
Number of MPPT Tracker	1				2						1/2							
strings per MPPT Trackers	1																	
Output (AC)																		
Rated output power (KW)	2	2.3	3	3.3	4	4/4.2	4.4/4.6	5	5.4	6	6.2	3	4	5	6	7	8	10
Rated Grid Voltage (V)	230V																	
Nominal Grid freq.(Hz)	50Hz																	
Max. output current AC (A)	8.69	10	13.04	14.34	17.39	18.26		21.7	26.08	4.3	5.8	7.2	8.6	10.1	11.56	14.5		
AC Connection (With PE)	P + N + E										3P + N + E							
THDI (%)	<3%																	
Output Power factor(%)	0.8Lead to 0.8Lag																	
Efficiency																		
Max. conversion eff. (%)	98.0																	
Max. Euro Efficiency (%)	97.5																	
Protection																		
Anti-Islanding Protection	Integrated (As per IEC)																	
Insulation Resistance Detection	Integrated																	
Residual Current Monitoring	Integrated																	
Over Voltage Protection	Supported (As per IEC)																	
DC Switch	Optional										Inbuilt							
Surge Protection	Type III with X+Y Capacitor																	
Other Protections	PV Lightning, DC input short circuit, DC O/V & U/V, insulation resistance detection, RCCB, ELCB, Over/Under voltage, Output over current, Output under frequency, Over Temperature, AC output PF control, Output Short circuit Protection , Input Reverse Polarity Protection																	
General Data																		
Dimensions(W*H*D) mm	297*223*117										425*351*160							
Weight (Kg)	4.8										13.7							
Noise Emission (dB)	<30dB																	
Display	LED with LCD Display																	
DC Connection type	MC-4																	
AC Connection type	Plug in connector / Wire																	
Communication interface	WiFi/ GPRS/ RS 485/ ETHERNET LAN/ Local Monitoring																	
Cooling Method	Natural Cooling																	
Operating ambient	-25°C - +60°C																	
Relative Humidity	0% - 100%																	
Max. Operating Altitude (m)	2000 (>2000 Derating)																	
Protection class	IP65																	
Night stand by power Consumption (w)	<1																	
Warranty	Extendable upto 12 Year																	

