



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

	Three Phase (3Kw - 60Kw)																				
Model (KSY) (KW)	3	4	5	6	7	8	10	12	15	18	20	22	25	27.5	30	33	35	40	45	50	60
Input (DC)																					
Max Peak DC Input Power (KW)	3.60	4.80	6.00	7.20	8.40	9.60	12.00	14.40	18.00	21.60	24.00	26.04	30.00	32.04	36.00	39.06	42	48	54	60	64.04
Max. DC I/P (V dc)	1000Vdc															1100Vdc					
Max. MPPT I/P Current(A)	20A					26A					30A										
MPPT Short Circuit Current (A)	20A					40A					46A										
MPPT Tracking Voltage (Vdc)	200-1000V																				
Min. Start Voltage (V)	250VDC																				
Number of MPPT Tracker strings per MPPT Trackers	1/2			2			2			3			4								
	1			1			2			3			2								
Output (AC)																					
Rated output power (KW)	3	4	5	6	7	8	10	11	12	15	18	22	20	27	25	30	33	35	45	50	54
Rated Grid Voltage (V)	400V																				
Nominal Grid freq.(Hz)	50Hz																				
Max. output current AC (A)	4.3	5.8	7.2	8.6	10.1	11.56	14.5	17.32	21.7	26.01	28.90	30.8	36.12	37.8	43.35	47.68	50.57	57.80	65.02	72.25	78.02
AC Connection (With PE)	3P + N + E																				
THDI (%)	<3%																				
Output Power factor(%)	0.8Lead to 0.8Lag																				
Efficiency																					
Max. conversion eff. (%)	98.0															98.7					
Max. Euro Efficiency (%)	97.5															98.3					
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	Inbuilt																				
Surge Protection	Type III with X+Y Capacitor / Type II																				
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	425*351*160					425*351*200					580*435*242										
Weight (Kg)	13.7					20					40										
Noise Emission (dB)	<30dB																				
Display	LED with LCD Display																				
DC Connection type	MC-4																				
AC Connection type	Plug in connector / Terminal blocks																				
Communication interface	WiFi/ GPRS/ RS 485/ ETHERNET LAN/ Local Monitoring																				
Cooling Method	Natural Intelligent Cooling / Smart Intelligent 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 11 Year																				

