



INDIAN COMPANY

Solar Grid Tie Inverter

5G -MEGA- Technical Datasheet



- Inbuilt ACDB/DCDB, fuse, MCB etc.
- High DC Voltage Range (1100Vdc with max efficiency 99.09%)
- Suitable for high watt peak panels Mono Perc & Bifacial.
- 100% Inhouse R&D, Production & testing Facility at Pune .
- IP65 & IP66 Dynamic intelligent cooling.
- String level monitoring.



	Three Phase (60Kw - 250Kw)								
Model (KSY) (KW)	60	70	75	80	90	100	110	225	250
Input (DC)									
Max Peak DC Input Power (KW)	72	84	90	96	108	120	132	270	300
Max. DC I/P (V dc)	1100Vdc						1500Vdc		
Max. MPPT I/P Current(A)	36A			48A & 36			60A		30A
MPPT Short Circuit Current (A)	45A			60A & 45			75A		37A
MPPT Tracking Voltage (Vdc)	250-1000V						820-1320		
Min. Start Voltage (V)	250VDC						600V		
Number of MPPT Tracker	4						12		
strings per MPPT Trackers	3				5			2	
String level Monitoring	Inbuilt								
Output (AC)									
Rated output power (KW)	60	70	75	80	90	100	110	225	200-250
Rated Grid Voltage (V)	400V							720V	800V
Nominal Grid freq.(Hz)	50Hz								
Max. output current AC (A)	86.7	101.2	108.4	115.6	130.1	144.5	159.0	162	180.0
AC Connection (With PE)	3P + N + E								
THDI (%)	<3%								
Output Power factor(%)	0.8Lead to 0.8Lag							>0.99%	
Efficiency									
Max. conversion eff. (%)	98.9						>97		
Max. Euro Efficiency (%)	98.5						98.2		
General Data									
Dimensions(W*H*D) mm	705*650*283					800*672*315		1000 x 727 x 317	
Weight (Kg)	75					85		100	
Noise Emission (dB)	<60dB							<30dB	
Display	LED Indications for IP66/ LCD Optional								
DC Connection type	MC-4								
AC Connection type	Terminal block								
Communicaton interface	WiFi/ GPRS/ RS 485/ ETHERNET LAN/ Local Monitoring (STRING LEVEL MONITORING)								
Cooling Method	Intelligent Forced Cooling + Natural Cooling								
Operating ambient temperature	-25°C - +60°C								
Relative Humidity	0% - 100%								
Max. Operating Altitude (m)	5000 (>4000m Derating)								
Protection class	IP66/ IP65								
Night stand by power Consumption (w)	<5								
Warranty	Extendable upto 12 Year								
Protection									
Safety Standards	Integrated (As per IEC 62109-1&2)								
Emnvironment Protections	Integrated (As per IEC 60068-2-1/2/14/15)								
Anti-Islanding Protection	Integrated (As per IEC-62116)								
Residual Current Monitoring	Integrated								
DC Side fuse / DC Switch	Integrated/ Inbuilt								
Over Voltage Protection	Supported (As per IEC 62109-1)								
Surge Protection	DC / AC: Type II (With DC fuse & MCB's)								
Other Protections	Output over current, Output under frequency, Over Temperature, AC output PF control, Output Short circuit PV Lightning, DC input short circuit, DC O/V & U/V, insulation resistance detection, RCCB, ELCB, Over/Under voltage, Protection , Input Reverse Polarity Protection								



