

ON-GRID STRING INVERTER : 1kW to 60kW

FEATURES

- Wide input voltage, DC input voltage up to 1000V
- Transformerless & Low noise technique
- Compact Design & Easy Installation
- IP65 compatible
- RS232/485 communication interface(Wi-Fi adapter Optional)
- Maximum efficiency of 99.0% and wide input voltage range
- Latest Dual MPPT Technology Which Guarantees 99.5% Efficiency
- Internal DC Switch
- LCD Screen to Monitor Performance
- Comprehensive Warranty Program
- IEC Compliant



ON GRID INVERTERS: SINGLE PHASE

INPUT PARAMETERS	KSG-I-1K	KSG-I-2K	KSG-I-3K	KSG-I-5K
Max. DC I/P Power	1300 W	2300 W	3400 W	5750 W
Max. I/P Current	10A	11A	13 A	15A
Max. DC I/P Voltage	450 V	450 V	550 V	550V
Start Voltage	80 V	80 V	80 V	100V
PV Voltage Range	70 V - 450 V	70 V - 450 V	70 V - 550 V	175V-500V
MPPT Operating Voltage Range / Nominal Voltage	70 V - 450 V / 180 V	70 V - 450 V / 360 V	70 V - 550 V / 360 V	80V-500V/360V
Max. I/P Current per string	10A	11A	13 A	15A
Number of MPPT	1	1	1	2
Inputs per MPPT	1	1	1	1
OUTPUT PARAMETERS				
Max. AC O/P Power	1000 W	2000 W	3000 W	5000 W
AC Nominal Voltage ; Range	220 V - 240 V ; 180 - 240 VAC			
Max. AC O/P Current	4.7 A	9.5 A	14.3 A	22.7 A
AC Grid Frequency / Range	50 - 60 Hz \pm 5 Hz			
Power Factor	1			
PROTECTION				
DC Reverse Polarity Protection	Yes			
O/P AC overcurrent protection	Yes			
O/P AC overvoltage protection-varistor	Yes			
Ground Fault Monitoring	Yes			
Grid Monitoring	Yes			
Integrated all-pole sensitive leakage current monitoring unit	Yes			
GENERAL PARAMETERS				
Dimensions (WxHxD) in mm	271x267x142	271x267x142	271x320x142	355x419x158
Weight	6.1 KG	6.1 KG	8.8 KG	14.5 KG
Max. Efficiency	97.40%	97.40%	97.40%	97.90%
Topology	Transformerless			
Cooling	Natural			
Environment Protection Rating	IP65			
Operating Temperature Range	(-)25°C to +60°C (with derating above 45°C)			
Altitude	2000m without derating			
Self-Consumption (night)	< 0.5 W			
Noise Emission (Typical)	\leq 25 dB (A)			
AC Connection	Connector			Screw Terminal
DC Connection	H4 / MC4 (opt)			
Display	LCD			
Interfaces: RS232/RS485/Bluetooth/RF/Wifi	Yes/Yes/Opt/Opt/Opt			
Warranty	7 years			
Certificates & Approvals	CE, IEC 62109, IEC 61727, IEC 62116, IEC 60068			

STRING INVERTERS (3 PHASE) : 5KW, 10KW, 15KW, 20KW

Kirloskar Model No.	KSG-III-5KN	KSG-III-10KN	KSG-III-15K	KSG-III-20K
INPUT PARAMETERS				
Max. DC I/P Power	6 kW	12 kW	18 kW	22 kW
Max. I/P Current	11A	13 A	20A	26 A
Max. DC I/P Voltage	1000 V	1000 V	1000 V	1000 V
Start Voltage	140 V	200 V	160V	350 V
PV Voltage Range	140 V - 800 V	160 V - 1000 V	160 V - 1000 V	180 V - 1000 V
MPPT Operating Voltage Range / Nominal Voltage	250 V - 800 V / 620 V	450 V - 850 V / 600 V	520V-850V/600V	300 V - 1000 V / 600 V
Max. I/P Current per string	11A	13A	10A	20A
Number of MPPT	2	2	2	2
Inputs per MPPT	1	1	1	3
OUTPUT PARAMETERS				
Rated AC Power	5 kW	10 kW	15 kW	20 kW
Max. O/P Current	8.5 A	16.7 A	16.5A	32 A
AC Nominal Voltage	230 V / 400V			
AC Grid Frequency / Range	50 - 60 Hz \pm 5 Hz			
Power Factor	1			
THDi	<3%			
AC Connection	3/N/PE			
PROTECTION				
DC Reverse Polarity Protection	YES			
DC Switch for each MPPT	YES			
O/P AC overcurrent protection	YES			
O/P AC overvoltage protection-varistor	YES			
AC Surge Protection	YES			
DC Surge Protection	NO		YES	
Ground Fault Monitoring	YES			
Grid Monitoring	YES			
Integrated all-pole sensitive leakage current monitoring unit	YES			
Output Short Circuit Protection	YES			
String Fuse Protection	NO		YES	
String Fault Monitoring	NO		YES	
Anti-PID Protection	NO		YES	
GENERAL PARAMETERS				
Dimensions (WxHxD) in mm	480x448x200	480x448x200	480x448x200	570 x 740 x 235
Weight in KG	21.2	21.6	23.5	60
Max. Efficiency	98%	98.40%	98.40%	98.00%
Topology	Transformerless			
Cooling	Natural			
Environmental Protection Rating	IP65			
Operating Temperature Range	(-)25°C to +60°C			
Relative Humidity	0 ~ 100%			
Self-Consumption (night)	< 0.5 W			
Noise Emission (Typical) in dB (A)	\leq 35	\leq 55	\leq 35	\leq 45
Display	LCD			
Interfaces: RS232/RS485/Ethernet/RF/Wi-Fi	YES/YES/Opt/Opt/Opt			
Warranty: 7 years / 10 years	YES / Opt			
Certificates & Approvals	IEC 62109-1/2, IEC61727, IEC 62116, IEC 60529, IEC 60068, IEC 61683			

STRING INVERTERS (3 PHASE) : 30KW, 40KW, 60KW

Kirloskar Model No.	KSG-III-30K	KSG-III-40K	KSG-III-60K
INPUT PARAMETERS			
Max. DC I/P Power	37.5 KW	50 kW	72 kW
Max. I/P Current	34 A	38 A	150A
Max. DC I/P Voltage	1000 V	1000 V	1100 V
Start Voltage	250 V	250 V	250 V
PV Voltage Range	200 V - 1000 V	200 V - 1000 V	580 V - 1000 V
MPPT Operating Voltage Range / Nominal Voltage	450 V - 800 V / 580 V	540 V - 800 V / 580 V	580 V - 850V/600V
Max. I/P Current per string	12A	12A	12.5A
Number of MPPT	2	2	6
Inputs per MPPT	4	4	2
OUTPUT PARAMETERS			
Rated AC Power	30 KW	40 kW	60 kW
Max. O/P Current	48.3 A	64.5 A	96.6 A
AC Nominal Voltage	230 V / 400V		
AC Grid Frequency / Range	50 - 60 Hz \pm 5 Hz		
Power Factor	1		
THDi	<3%		
AC Connection	3/N/PE, 3W+PE(opt)		
PROTECTION			
DC Reverse Polarity Protection	YES		
DC Switch for each MPPT	YES		
O/P AC overcurrent protection	YES		
O/P AC overvoltage protection-varistor	YES		
AC Surge Protection	YES		
DC Surge Protection	YES		
Ground Fault Monitoring	YES		
Grid Monitoring	YES		
Integrated all-pole sensitive leakage current monitoring unit	YES		
Output Short Circuit Protection	YES		
String Fuse Protection	YES		
String Fault Monitoring	YES		
Anti-PID Protection	YES		
GENERAL PARAMETERS			
Dimensions (WxHxD) in mm	470 x 754 x 270	470 x 754 x 270	870 x 580 x 290
Weight in KG	48	48	78
Max. Efficiency	98.90%	99.00%	99.00%
Topology	Transformerless		
Cooling	Smart Fan Cooling		
Environmental Protection Rating	IP65		
Operating Temperature Range	(-)25°C to +60°C		
Relative Humidity	0 ~ 100%		
Self-Consumption (night)	<1 W		
Noise Emission (Typical) in dB (A)	\leq 40	\leq 50	\leq 55
Display	Graphic LCD		LED Information Disk/WiFi+APP
Interfaces: RS232/RS485/Ethernet/RF/Wi-Fi	YES/YES/Opt/Opt/Opt		
Warranty: 7 years / 10 years	YES / Opt		
Certificates & Approvals	IEC 62109-1/2, IEC61727, IEC 62116, IEC 60529, IEC 60068, IEC 61683		

KIRLOSKAR SOLAR TECHNOLOGIES PRIVATE LIMITED

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