

# OFF-GRID INVERTERS : 3 to 20kVA

**kirloskar**  
Solar

## FEATURES

- High Efficiency & Reliability
- Pure Sine Wave Output
- Easy to Install & Low Running Cost
- Compact Design
- Multi Function LCD Display
- 2 years of warranty



## KIRLOSKAR SOLAR OFF GRID INVERTERS - 3 to 20kVA

Model No.:	KSOG-I-3000M48V	KSOG-I-5000M48V	KSOG-I-10000M240V	KSOG-III-15000M240V	KSOG-III-20000M240V
Capacity	3 KVA	5 KVA	10 KVA	15 KVA	20 KVA
	2.4 kW	4 kW	8 kW	12.5 kW	16 kW
Battery VDC	48 V	48 V	240 V	240 V	240 V
Solar Charge Controller Type/Capacity	MPPT Charger / 50A				
Max. Solar Power Input	2.4 kWp	4 kWp	8 kWp	12.5 kWp	15.5 kWp
Solar Input Vmax Range	75-125 V	75-125 V	300-400 V	300-400 V	280-400V
Solar Voc Max.	150 V	150 V	450 V	450 V	450 V
Battery Configuration (C10 Rated Lead Acid Tubular)	12V x 4 no.	12V x 4 no.	12V x 20 no.	12V x 20 no.	12V x 20 no.
Switching By	MOSFETS		IGBT		
Nominal Output Voltage	220 - 240 V AC			L-L 400Vac + 2% / 230Vac L-N	
<b>INPUT</b>					
User Selection Mode	Inverter Mode				
Voltage Range	110 - 290V AC			170 - 280 Vac Per Phase L-N	
Voltage Cutoff Range	110 - 290 ±10 V AC			171 - 280 Vac ±10 V AC Per Phase L-N	
Voltage Recovery Range	120 - 275 ±10 V AC			172 - 280 Vac ±10 V AC Per Phase L-N	
Frequency Range	47 - 53 Hz				
<b>OUTPUT</b>					
Voltage Regulation on Mains	Same as Mains Input				
Voltage Regulation in Battery Mode	230V AC Nominal +/- 2% (Range 210V-240V)			230V AC Nominal +/- 2% (Range 210V-240V) Per	
Frequency Regulation on Mains Mode	Same as Mains Input				
Frequency Regulation in Battery Mode	50Hz ± 0.1Hz				
Waveform	Pure Sine Wave				
Power Factor	0.8				
Efficiency	≥85%				
<b>PROTECTIONS</b>					
Over Load	For 100% Load - Buzzer Indication, 101% above load trips & retry for 4times then inverter shuts down				
Output Short Circuit	Circuit breaker on mains, Shuts down on inverter				
Battery Reverse Protection	Fuse				
Low Battery	Load Disconnection				
Thermal Shutdown	Below 0°C and above 90°C				
Lightening/Surge	Protected upto 4KV surge				
Solar Reverse	Blocking diode is provided to prevent reverse flow of current				
Change Over Time	< 20ms				
<b>ENVIRONMENT OPERATING CONDITIONS</b>					
Operating Ambient Temp.	(-) 10°C to 50°C				
Relative Humidity	0 - 95%				
<b>PHYSICAL PARAMETERS</b>					
Dimension (LxWxH) in mm	-	800 x 330 x 670	900 x 400 x 830		
Weight	40 kg approx	100 kg	120 kg	140 kg	
Communication	Optional				
<b>DISPLAY</b>					
LED Display	Mains, Charger, Output, Fault				
LCD Display	Battery Vtg., I/P Vtg., O/P Vtg., Grid Charging C/N, Solar Vtg., Solar Charging C/N, Solar Units Saved kWh, Over Load, Battery Low etc.				

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