

OFF-GRID INVERTERS : 3 to 20kVA

FEATURES

- High Efficiency & Reliability
- Pure Sine Wave Output
- Easy to Install & Low Running Cost
- Compact Design / Pure Hybrid
- 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 | |
| INPUT | | | | | |
| 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 | | | | |
| OUTPUT | | | | | |
| 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% | | | | |
| PROTECTIONS | | | | | |
| 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 | | | | |
| ENVIRONMENT OPERATING CONDITIONS | | | | | |
| Operating Ambient Temp. | (-) 10°C to 50°C | | | | |
| Relative Humidity | 0 - 95% | | | | |
| PHYSICAL PARAMETERS | | | | | |
| Dimension (LxWxH) in mm | 390 x 210 x 490 | 500 x 250 x 525 | 800 x 330 x 670 | 900 x 400 x 830 | |
| Weight | 40 | 52 | 100 kg | 120 kg | 140 kg |
| Communication | Optional | | | | |
| DISPLAY | | | | | |
| 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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