

# SOLAR ONLINE INVERTER SOI

- Single Phase -  
2KVA - 12.5KVA
- Three Phase -  
10KVA - 100KVA



**Run Your load without Battery & Grid**

## Features

- Battery less system
- Load sharing from Solar & Grid
- Pure sinewave output
- Auto-reset on fault event
- Load will be continued to run on solar during grid fail
- Built-in isolation transformer
- High-efficiency inverter
- Interactive LCD display
- Fully automatic operation



## APPLICATIONS

- Educational Institutes
- Banking Offices
- Corporate Offices
- Augmentation with existing solar on Grid & Water Pump System

# TECHNICAL SPECIFICATION FOR SOLAR ONLINE INVERTER

## 1 PHASE SOLAR ONLINE INVERTER

Model No.	SOI-2K	SOI-4K	SOI-5K	SOI-6K	SOI- 7.5K	SOI-8K	SOI- 10K	SOI- 12K	SOI- 12.5K
<b>SOLAR PV CONFIGURATION</b>									
Switching Technology	MPPT BASED TECHNOLOGY								
Switching Device	IGBT								
PV Rating	2KWp	4KWp	5KWp	6KWp	7.5KWp	8KWp	10KWp	12KWp	12.5KWp
PV Series Configuration (72 Cells)	6	6	8	6	8	6	6/8	6	8
<b>INVERTER</b>									
Type	IGBT Based True Sine Wave Inverter								
Technology	16 Bit DSP Based								
Inverter Capacity	2KVA	4KVA	5KVA	6KVA	7.5KVA	8KVA	10KVA	12KVA	12.5KVA
Output Voltage	1 Phase, 230 VAC								
Output Frequency	50 Hz +/- 0.5 HZ								
Voltage THD	< 3%								
Inverter Efficiency	Upto 90%								
No Load consumption	<2%								
Overload	125% for 60 sec, 150% for 30 sec, 200% for 3 sec								
Crest Factor	3:1								
Load Isolation	Galvanic Isolation Through Built-in Transformer								
Load Power Factor	0.8 Lag								
Load Changeover	Automatic through Relay / Contactor / Static								
<b>Environment</b>									
Operating Temperature	0 to +50°C								
Storage Temperature	10 to 50°C								
Relative Humidity	95% non-condensing <50dB								
Noise Level									
Protection Class	IP 20								
<b>GRID</b>									
Grid Input	230 VAC, -20%,+ 15% , 1φ								
Frequency	50 Hz +/-10%								
<b>Protection</b>									
System Protection	Short circuit, Overload, PV overvoltage, PV under voltage, PV reverse Polarity, Grid Over voltage, Grid under voltage, Voltage Surge Protection, Over temp,								
LED Indication	Main On, Inverter On, PV On, PV Low, Load On, Fault, SWg								
LCD Display	Output: Voltage, Current, Power(KVA), Load Percentage, KVAH PV: Voltage, Current, Power, KWH Grid: Voltage Status: Load On Inv/Grid, HS Temp, Fault Condition								
Dimension (LxWxH) mm	600x250x500				680x350x650				
Monitoring (Optional)	Wifi/GSM Based Remote Monitoring								
*Specification are subject to change without prior notice due to constant improvement in design & Technology.									

# TECHNICAL SPECIFICATION FOR SOLAR ONLINE INVERTER

## 3 PHASE SOLAR ONLINE INVERTER

Model No.	SOI-10K	SOI-15K	SOI-20K	SOI-30K	SOI- 40K	SOI-50K	SOI- 75K	SOI- 100K
SOLAR PV CONFIGURATION								
Switching Technology	MPPT BASED TECHNOLOGY							
Switching Device	IGBT							
PV Rating	10KWp	15KWp	20KWp	30KWp	40KWp	50KWp	75KWp	100KWp
PV Series Configuration	72 Cells Modules - 10 in Series							
INVERTER								
Type	IGBT Based True Sine Wave Inverter							
Technology	16 Bit DSP Based							
Inverter Capacity	10KVA	15KVA	20KVA	30KVA	40KVA	50KVA	75KVA	100KVA
Output Voltage	3 Phase, 230 VAC L-N/400VAC L-L							
Output Frequency	50 Hz +/- 0.5 HZ							
Voltage THD	< 3%							
Inverter Efficiency	Upto 90%							
No Load consumption	<2%							
Overload	125% for 60 sec, 150% for 30 sec, 200% for 3 sec							
Crest Factor	3:1							
Load Isolation	Galvanic Isolation Through Built-in Transformer							
Load Power Factor	0.8 Lag							
Load Changeover	Automatic through Contactor / Static Switch							
Environment								
Operating Temperature	0 to +50°C							
Storage Temperature	-10 to 50°C							
Relative Humidity	95% non-condensing							
Cooling	Forced Air cooled							
Noise Level	<50 dB							
Protection Class	IP 20							
GRID								
Grid Input	230 VAC L-N, 400 VAC L-L, -20% + 15%, 3φ							
Frequency	50 Hz +/-5%							
Protection								
System Protection	Short circuit, Overload, PV overvoltage, PV under voltage, PV reverse Polarity, Grid Over voltage, Grid under voltage, Voltage Surge Protection, Over temp,							
LED Indication	Main On, Inverter On, PV On, PV Low, Load On, Fault, SWg							
LCD Display	Output: Voltage, Current, Power(KVA), Load Percentage, KVAH PV: Voltage, Current, Power, KWH Grid: Voltage Status: Load On Inv/Grid, HS Temp, Fault Condition							
Dimension (LxWxH) mm	680x350x650	700x450x800			1000x600x1150			
Monitoring (Optional)	Wifi/GSM Based Remote Monitoring							
*Specification are subject to change without prior notice due to constant improvement in design & Technology.								

## OUR VISION

Our vision is to add value to our Partners with innovative, efficient, reliable and cost effective Power backup and Power Conditioning products, Services and Solutions.



## OUR PRODUCT AND SOLUTIONS

### Hybrid & Offgrid Solar PCU (SP Series)

Single Phase (5-12.5KVA)  
Three Phase (10-100KVA)

### LIFT INVERTER

Three Phase (6-25KVA)

### ONLINE/OFFLINE UPS

Single Phase (5-10KVA)  
Three Phase (10-100KVA)

### SOLAR ONLINE INVERTER (SOI)

Single Phase (2-12.5KVA)  
Three Phase (10-100KVA)

### INDUSTRIAL INVERTER

Single Phase (5-10KVA)  
Three Phase (10-100KVA)

### SOLAR EPC

On-grid and Off-grid projects

### BRANCH OFFICE

AAF-12A, Azure Shipra Krishna, Kaushambhi Ghaziabad (UP)  
Pin 201010. ☎ 7720072990

B-1/18s Near Simanta Bus Stand Kalyani Simanta West Bengal  
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### HEAD OFFICE / FACTORY ADDRESS

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### Our Approvals

