

# MPS-SL SERIES

**Solar Inverter - 10 to 100 kW**  
Three Phase Output

## ™ True bi-directional Solar Inverter

for smarter, efficient and reliable Solar energy conversion

MPS, founded by a team, having multifaceted experience of designing large capacity state-of-the-art UPS, Grid Tied Solar Inverter, Active Harmonic Filters etc. MPS intent to bring contemporary technology to produce power quality enhancement and energy saving solutions, for business and industry.

MPS-SL-SERIES off grid bi directional solar inverter is the new generation inverter, which has been designed specially for the solar application. Our long standing Two+ decade expertise in solar On Grid and Off grid inverter market has resulted in to a smart, more reliable and efficient Sunbird Solar Inverter.

MPS Solar inverter has many unparallel features, which gives best ROI for the user and helps in bringing the dream of Green planet more closer.

### Special Features

- Multiple 32 bit DSP controllers
- Space Vector Modulation
- Battery less operation
- High efficiency
- True Bi-directional Solar Inverter
- Higher Array voltage capacity optionally available
- Inbuilt charge controller
- MPPT - Achieved through Incremental Conductance Algorithms
- Modular construction gives higher MTTR
- Battery charging through Grid up to 100%
- Selectable source feature - Grid / Battery
- DC fan for low power consumption
- Inbuilt isolation transformer for galvanic isolation
- 128 x 64 Graphics display
- PF correction while on mains / Grid supply (Line interactive)
- Variable fan speed - for increased reliability, results into lesser dust suction inside the cabinet



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## Solar Inverter - 10 to 100 kW Solar Inverter Three Phase Output



System Rating (KW)	10	15	20	25	30	40 / 50	80 / 100
<b>Photovoltaic Input</b>							
MPPT Range	165 - 200 V			330 - 420 V			
Open Circuit Voltage	300 V			600 V			
Maximum PV power recommended (KW)	11	16.5	22	27.5	33	44 / 55	88 / 110
MPPT base Charge Controller							
Switching Element IGBT							
Controller 32 Bit DSP controlled							
Type of Charger PWM with MPPT							
<b>Grid Input</b>							
Input Supply 415 V AC , 50Hz (-20%, +15%), 3 Phase 4 Wire							
Active Filtering during load on mains (Load Harmonic corrections) THDi up to 3 % & Power Factor $\geq$ 0.99							
<b>Battery</b>							
Battery Voltage	120 V			240 V			
Grid through Battery charging capacity (%kw Rating) 0 - 100%							
<b>Inverter</b>							
Switching Element IGBT							
Control 32 Bit DSP controlled							
Nominal Output Voltage, Frequency 415 V AC L - L, 50 Hz, 3 Phase 4 Wire							
Output Waveform Sine Wave							
Load Power Factor 0.6 lag to 1 ( within kVA and kW rating)							
Voltage Regulation $\pm$ 2%							
Voltage Stability in dynamic condition Complies with IEC/EN 62040-3,Class 1							
Output voltage distortion with 100% linear load <2%							
Inverter peak efficiency (Ref. STD IEC 61683) 92% 94%							
Protection degree with open doors IP20							
Colour RAL 7016 Texture							
Dimension (WxDxH in mm) 600 x 800 x 1200 600x800x1750 1000x900x1750							
Cooling Forced Air							
Galvanic Isolation Inbuilt isolation transformer at inverter output							
Protection Under/Over voltage for Input, Output, Array & Battery. Output overload, short circuit, Over temperature, MCCB at Input, Output, Array & Battery path.& Surge protection at Input, Array & Battery path.							
Display Parameter 1. Array - Voltage, Current, Power, Temperature, 2. Battery - Voltage, current, Power 3. Grid - Voltage, Current, Power, PF, 4. Output - Voltage, Current, Inv. H/S temp. 5. Statistics - Grid import, Grid export, Total Output, Daily Output Power, kWh							
<b>Environment</b>							
Temperature Operating 0 - 40 °C							
Max. Relative humidity @25°C (non condensing) Up to 95%							
Max. Altitude above sea level without de-rating 1000 m (For higher altitude complies with IEC/EN 62040 - 3)							
Standard Compliance							
Testing IEC 62040 - 3 ; IEC 61683 ; 60068 - 2							

Note : 100KW available with 360V DC & 480V DC

The information contained in this publication is subject to change without prior notice.

### MEENAKSHI POWER SOLUTIONS.

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