



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 newgeneration 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)

MP9

 Variable fan speed - for increased reliability, results into lesser dust suction inside the cabinet

MPS-SL-SERIES

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



Photovoltaic Input 300 - 420 V 330 - 420 V									
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 / 111 MPPT base Charge Controller IGBT IGBT IGBT 500 V 88 / 111 MPT base Charge Controller 32 Bit DSP controlled IGBT IGB	System Rating (KW)	10	15	20	25	30	40 / 5	50	80 / 100
Open Circuit Voltage 300 V 600 V Maximum PV power recommended (KW) 11 16.5 22 27.5 33 44 / 55 88 / 111 Maximum PV power recommended (KW) 11 16.5 22 27.5 33 44 / 55 88 / 111 Maximum PV power recommended (KW) 11 16.5 22 27.5 33 44 / 55 88 / 111 Switching Element IGBT 32 Bit DSP controlled 5 5 5 5 7	Photovoltaic Input								
Maximum PV power recommended (KW) 11 16.5 22 27.5 33 44 / 55 88 / 111 MPPT base Charge Controller Switching Element IGBT Controlled 32 Bit DSP controlled For an and an and an and an and an and and	MPPT Range	165 - 200 V 330 - 420 V							
MPPT base Charge Controller IGBT Switching Element 32 Bit DSP controlled Type of Charger PWM with MPPT Grid Ipput 415 V AC , 50Hz (-20%, +15%), 3 Phase 4 Wire Active Filtering during load on mains Item State (-20%, +15%), 3 Phase 4 Wire Claad Harmonic corrections) THDi. up to 3 % & Power Factor ≥ 0.99 Battery State (-20%, +15%), 3 Phase 4 Wire Glid through Battery charging capacity (%kw Rating) 0 - 100% 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 IGBT Control 32 Bit DSP controlled Nominal Output Voltage, Frequency 415 V AC L - L, 50 Hz, 3 Phase 4 Wire Output Waveform IGBT Control 32 Bit DSP controlled Nominal Output Voltage, Streator 0.6 lag to 1 (within KVA and kW rating) Voltage Regulation ±2% Protection degree with open doors IP20 Colour RAL 7016 Texture Dimension (WxDxH in mm) 600 x 800 x 1200 600x800x1750 1000x900x175 Colour R	Open Circuit Voltage	300 V			600 V	,			
Switching Element IGBT Controller 32 Bit DSP controlled Type of Charger PWM with MPPT Enjour Supply 415 V AC , 50Hz (-20%, +15%), 3 Phase 4 Wire Active Filtering during load on mains	Maximum PV power recommended (KW)	11	16.5	22	27.5	33	44 / 5	55	88 / 110
Controller32 Bit DSP controlledType of ChargerPVM with MPPTGrid InputSite ControllerGrid Input15 V A C , 50Hz (-20%, +15%), 3 Phase + 4WireActive Fitering during load on mainsTHD up Site A & Power Factor > 0.9Active Fitering during load on mainsTHD up Site A & Power Factor > 0.9Battery Voltage120 V240 VGrid Input240 V100%Grid Input Site A serviceIGBTControl32 Bit DSP controller100%Control32 Bit DSP controller100%Control16 BT100%Control32 Bit DSP controller100%ControlSine Wave100%Load Power Factor0.6 lag to 1 (within kVA and kW rating)100 (200	MPPT base Charge Controller								
Type of Charger PWM with MPPT Grid Input 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 ≥ 0.99 Battery Battery 240 V 240 V Grid through Battery charging capacity (%kw Rating) 0 - 100% Inverter Switching Element IGBT Control Sorter Voltage, Frequency 415 V AC L - L, 60 Hz, 3 Phase 4 Wire Output Waveform Output Waveform Sine Wave Sine Wave Output Waveform Output Waveform Sine Wave Sine Wave Output Voltage Stability in dynamic condition Output Voltage Stability in dynamic condition Complex with IEC/EN 62040-3,Class 1 Output Voltage Stability in dynamic condition Colour RAL 7016 Texture IP20 IP000000000000000000000000000000000000	Switching Element				IGBT				
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Load Harmonic corrections) THD up to 3 % & Power Factor ≥ 0.99 Battery 240 V 240 V Grid through Battery charging capacity (%kw Rating) 0 - 100% 1000000000000000000000000000000000000	Input Supply		4	415 V AC , 50H	z (-20%, +15%	6), 3 Phase 4 V	Wire		
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Votage Stability in dynamic condition Complies with IEC/EN 62040-3,Class 1 Output votage distortion with 100% linear load <2%	Load Power Factor			0.6 lag to 1 (v	vithin kVA and	kW rating)			
Output voltage distortion with 100% linear load <2%	Voltage Regulation				± 2%				
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Max. Altitude above sea level without de-rating 1000 m (For higher altitude complies with IEC/EN 62040 - 3) Standard Compliance 1000 m (For higher altitude complies with IEC/EN 62040 - 3)	Temperature Operating				0 - 40 °C				
Standard Compliance	Max. Relative humidity @25°C (non conde	ensing)			Up to 95%				
	Max. Altitude above sea level without de-	rating	10	00 m (For high	er altitude com	plies with IEC	/EN 62040	- 3)	
Testing IEC 62040 - 3 ; IEC 61683 ; 60068 - 2	Standard Compliance								
	Testing			IEC 620	40 - 3 ; IEC <u>6</u> 1	683 ; 60068 -	2		

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

MEENAKSHI POWER SOLUTIONS.

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