

# Solar Inverter

## 1.0 to 3.0 kW Single Phase



Suitable for solar installations  
from 0.67kWp up to 4.5kWp (DC)

- ▲ **Discreet and lightweight**  
Footprint of an A4 sheet of paper and  
whisper quiet operation
- ▲ **Enhanced generation**  
Low start-up voltage generates power  
in low light conditions
- ▲ **Peace of mind**  
10 year warranty
- ▲ **Smart control**  
Generation monitoring and optional  
export limitation
- ▲ **Safe and reliable**  
Factory fitted DC isolator switch for  
improved safety
- ▲ **Experts in solar**  
UK technical and design support

## Specification

	MACSI1000	MACSI1500	MACSI2000	MACSI2500	MACSI3000	
<b>OUTPUT</b>	Nominal output power	1000W	1500W	2000W	2500W	3000W
	Nominal output apparent power	1000W	1500W	2000W	2500W	3000W
	Max. AC active power	1100W	1650W	2200W	2750W	3300W
	Max. AC active apparent power	1100W	1650W	2200W	2750W	3300W
	Nominal output voltage	230V	230V	230V	220V / 230V	220V / 230V
	Nominal AC grid frequency	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz
	Max. output current	4.8A	7.2A	9.6A	12.0A	14.3A
	Power factor	~ 1 (adjustable from 0.8 leading to 0.8 lagging)				
	Max. total harmonic distortion	<3%	<3%	<3%	<3%	<3%
<b>INPUT</b>	Max. input power	1500W	2250W	3000W	3750W	4500W
	Max. input voltage	500V	500V	500V	600V	600V
	MPPT operating voltage range	40V~450V	50V~450V	50V~450V	50V~550V	50V~550V
	Start-up voltage	40V	50V	50V	50V	50V
	Nominal input voltage	360V	360V	360V	360V	360V
	Max. input current per MPPT	15A	15A	15A	15A	15A
	Max. short circuit current per MPPT	18.75A	18.75A	18.75A	18.75A	18.75A
	Number of MPPT trackers	1	1	1	1	1
	Number of strings per MPPT	1	1	1	1	1
<b>EFFICIENCY</b>	Max. efficiency	97.2%	97.3%	97.5%	97.6%	97.6%
	European efficiency	96.4%	96.6%	97.0%	97.2%	97.2%

<b>GENERAL</b>	
Operating temperature range	-25°C to 60°C
Relative humidity	0 to 100%
Max. operating altitude	3000m
Cooling method	Natural convection
User interface	LED, LCD, WLAN and App
Communication	Wifi or LAN
Weight	5.8kg
Dimensions (WxHxD)	295 x 230 x 113mm
Noise emission	<30dB
Topology	Non-isolated
Standby power consumption	<1W
Ingress protection (IP) rating	IP65
DC connector	MC4 (2.5-4mm <sup>2</sup> )
AC connector	Plug and play connector

<b>PROTECTION</b>	
PV insulation resistance detection	Integrated
Residual current monitoring	Integrated
Anti-islanding protection	Integrated
AC overcurrent protection	Integrated
AC short circuit protection	Integrated
AC overvoltage protection	Integrated
DC switch	Integrated
DC surge protection	Type III (Type II optional)
AC surge protection	Type III
AFCI	Option
Emergency power off	Option
Remote shutdown	Option



# Tell me more

Call 01283 722588

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Or visit [marley.co.uk/solar](http://marley.co.uk/solar)

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