



# Microinverter Datasheet

- MIS-350-1NA**
- MIS-400-1NA**
- MIS-450-1NA**
- MIS-500-1NA**

## Descriptions

The MIS-500-1NA series microinverter represents Hoymiles' latest breakthrough in residential energy solutions. It is lighter, safer, and offers power options ranging from 350 W to 500 W.

Optimally tailored to handle larger PV modules and equipped with the innovative Flex-S2 Cable System for easy, fast, and reliable installation, the MIS-500-1NA Series is the ideal solution for effectively harnessing energy while keeping costs low.

## Features

**01 Easier Installation**  
*Plug & play connection, eliminates complex wiring and crimping*  
*Lightweight and compact*

**02 Time-Saving**  
*Plug & play connection speeds up the installation, cutting installation by 70%*

**03 Higher Yields**  
*Max. efficiency 97.5%, small in size, massive in power*  
*Compatible with high-powered PV modules*

**04 Safe & Reliable**  
*Class II double-insulated enclosure, no grounding needed*  
*Comply with IEE1547, UL1741, and UL 1741 SB, etc.*



# Technical Specifications

Model	MIS-350-1NA		MIS-400-1NA		MIS-450-1NA		MIS-500-1NA	
<b>Input Data (DC)</b>								
Commonly used module power (W)	280 to 470+		320 to 540+		360 to 605+		400 to 670+	
Maximum input voltage (V)	60		65		65		65	
MPPT voltage range (V)	16 to 58							
Start-up voltage (V)	22							
Maximum input current (A)	13		14		15		16	
Maximum input short circuit current (A)	20		25		25		25	
Number of MPPTs	1							
Number of inputs per MPPT	1							
<b>Output Data (AC)</b>								
Peak output power (VA)	350		400		450		500	
Maximum continuous output power (VA)	319		360		410		475	
Maximum continuous output current (A)	1.33	1.53	1.50	1.73	1.71	1.97	1.98	2.28
Nominal output voltage/range (V)*	240 /211–264	208 /183–228	240 /211–264	208 /183–228	240 /211–264	208 /183–228	240 /211–264	208 /183–228
Nominal frequency/range (Hz)*	60/55 to 65							
Power factor (@ nominal power)	>0.99 default 0.8 leading ... 0.8 lagging							
Total harmonic distortion (@ nominal power)	<3%							
Maximum units per branch (10 AWG)**	18	15	16	13	14	12	12	10
Maximum units per branch (12 AWG)**	12	10	10	9	9	8	8	7
<b>Efficiency</b>								
Peak efficiency	97.50%							
CEC weighted efficiency	97.00%							
Nominal MPPT efficiency	99.80%							
Night power consumption (mW)	<50							
<b>Mechanical Data</b>								
AC connector type	Flex-S2 Cabling (refer to separate datasheet for cable and accessories)							
Operating temperature range (°F)	-40 to +149 (-40°C to +65°C )							
Storage temperature range (°F)	-40 to +185 (-40°C to +85°C )							
Dimensions (W × H × D) [inches]	8.82 x 6.51 x 1.12 without bracket (224.2 x 165.3 x 28.5 mm without bracket)							
Weight (lbs)	2.43 (1.1 kg)							
Enclosure rating	Type 6 (Outdoor-IP68)							
Cooling	Natural convection (no fans)							
<b>Features</b>								
Communication	Sub-1G							
Type of isolation	Galvanically Isolated HF Transformer							
Monitoring platform	Hoymiles S-Miles Cloud							
Compliance	UL1741, IEEE 1547, UL 1741 SB, CSA C22.2 No. 107.1-16 FCC 15B, FCC 15C							

\* : Nominal voltage/frequency range can vary depending on local requirements.

\*\* : Refer to local requirements for the exact number of microinverters per branch.