



Microinverter Datasheet

MIS-300-1T
MIS-350-1T
MIS-400-1T
MIS-450-1T
MIS-500-1T

Descriptions

The MIS-500-1T series microinverter represents Hoymiles' latest breakthrough in residential energy solutions. It is lighter, safer, and offers power options ranging from 300 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-500-1T 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 97.4%, 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 EN 50549-1: 2019, VDE-AR-N 4105: 2018, UL 1741, etc.



Technical Specifications

Model	MIS-300-1T	MIS-350-1T	MIS-400-1T	MIS-450-1T	MIS-500-1T
Input Data (DC)					
Commonly used module power (W)	240 to 405+	280 to 470+	320 to 540+	360 to 605+	400 to 670+
Maximum input voltage (V)	63				
MPPT voltage range (V)	16 to 58				
Peak power MPPT voltage range	27 to 48	29 to 48	30 to 48	32 to 48	33 to 48
Minimum/Maximum start-up voltage (V)	22/58				
Maximum input current (A)	12	13	14	15	16
Maximum input short circuit current (A)	20	20	25	25	25
Number of MPPTs	1				
Number of inputs per MPPT	1				
Maximum inverter back-feed current to the array (A)	0				
DC overvoltage category	II				
Output Data (AC)					
Peak output power (VA)	300	350	400	450	500
Maximum continuous output current (A)	1.30	1.52	1.74	1.96	2.17
Nominal output voltage/range (V)*	230/180 to 275				
Nominal frequency/range (Hz)*	50/45 to 55				
Power factor (@nominal power)	>0.99 default 0.8 leading ... 0.8 lagging				
Total harmonic distortion (@nominal power)	<3%				
Maximum units per branch (2.5 mm²) **	19	16	14	12	11
Maximum units per branch (4 mm²) **	26	22	19	17	15
AC port back-feed under single fault (A)	0				
AC overvoltage category	III				
Efficiency					
Peak efficiency	97.40%				
European weighted efficiency	96.90%				
Nominal MPPT efficiency	99.80%				
Night power consumption (mW)	<50				
Mechanical Data					
AC connector type	Flex-S2 Cabling (refer to separate datasheet for cable and accessories)				
Operating temperature range (°C)	-40 to +65				
Storage temperature range (°C)	-40 to +85				
Dimensions (H × W × D) [mm]	279 × 165.2 × 28.5				
Weight (kg)	1.1				
Enclosure rating	Outdoor-IP68 (1 m, 1 h)				
Cooling	Natural convection (no fans)				
Features					
Communication	Sub-1G				
Type of isolation	Galvanically Isolated HF Transformer				
Monitoring platform	Hoymiles S-Miles Cloud				
Compliance	EN 50549-1: 2019, EN 50549-10: 2022, NF EN 50549-1: 2019, TOR 2019, CEI 0-21: 2024, UNE 217002/NTS V2.1, RD 647/2020, VDE-AR-N 4105: 2018, UL 1741, IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 61000-3-2/-3				
Warranty	25 Years***				

* : Nominal voltage/frequency range can vary depending on local requirements.
** : Refer to local requirements for an exact number of microinverters per branch.
***: Refer to the warranty document at [Hoymiles Resources](#) for detailed terms and conditions.