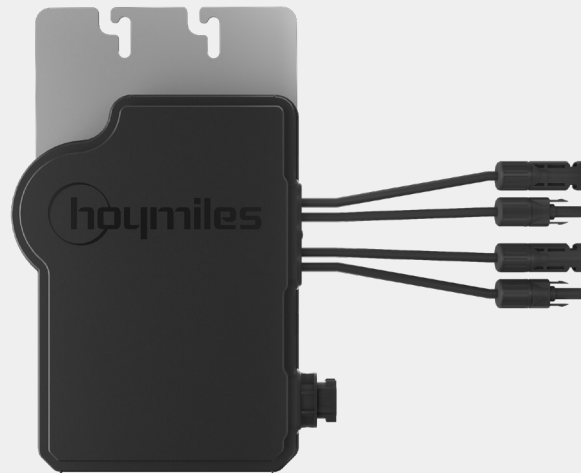




Single-phase Microinverter

MIS-700-2NA
MIS-800-2NA
MIS-900-2NA
MIS-1000-2NA

Description

The MIS-1000-2NA series microinverter represents Hoy miles' latest breakthrough in residential energy solutions.

The use of compact circuits and lightweight materials makes it smaller and lighter without sacrificing power. With a record-breaking peak efficiency rating of 97.5%, it delivers superior energy production.

Both models in this series use Sub-1G technology, guaranteeing stable and interference-free communication between microinverters and DTU.

Features

01

Productive

- Up to 97.5% peak efficiency
- Optimal power density for residential application
- Compatible with high-powered 182/210 mm PV modules

02

Reliable

- With Reactive Power Control, compliant with UL 1741, IEEE 1547, UL 1741 SB, etc.
- Safer for rooftop solar stations with rapid shutdown compliance and isolated transformer

03

Easy to install

- Lightweight and compact
- Simple plug-and-play installation

04

Built to Last

- Class II double-insulated enclosure



Technical Specifications

Model	MIS-700-2NA			MIS-800-2NA			MIS-900-2NA			MIS-1000-2NA		
Input Data(DC)												
Commonly used module power (W)	280 to 470+			320 to 540+			360 to 600+			400 to 670+		
Maximum input voltage (V)	63											
MPPT voltage range (V)	27 to 48			28 to 48			30 to 48			32 to 48		
Operating voltage range (V)	12 to 58											
Min./Max. start-up voltage (V)	18/58											
Max. input current (A)	2 × 13			2 × 14			2 × 15			2 × 16		
Max. input short circuit current (A)	2 × 20			2 × 25			2 × 25			2 × 25		
Number of MPPTs	2											
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)	700			800			900			1000		
Maximum continuous output power (VA)	638			720			820			958		
Maximum continuous output current (A)	2.66	3.07		3.00	3.46		3.42	3.94		3.99	4.61	
Nominal output voltage (V)	240	208		240	208		240	208		240	208	
Nominal output voltage/range (V)	240/211 to 264 or 208/183 to 228											
Nominal frequency/range (Hz)*	60/55 to 65											
Adjustable power factor (@nominal power)	>0.99 default 0.8 leading ... 0.8 lagging											
Total harmonic distortion (@nominal power)	<3%											
AC port back-feed current (mA)	0											
AC overvoltage category	III											
Maximum units per branch (10 AWG) **	9	7		8	6		7	6		6	5	
Maximum units per branch (12 AWG) **	6	5		5	4		4	4		4	3	
Efficiency												
Peak efficiency	97.5%											
CEC weighted efficiency	96.5%	96.5%		97.0%	96.5%		97.0%	96.50%		97.0%	96.5%	
Nominal MPPT efficiency	99.8%											
Night power consumption (mW)	<50											
Mechanical Data												
AC connector type	Flex-S2 Cabling (refer to separate datasheet for cable and accessories)											
Ambient temperature range (°F)	-40 to +149 (-40°C to +65°C)											
Storage temperature range (°F)	-40 to +185 (-40°C to +85°C)											
Dimensions (H × W × D [inches])	12.13 × 8.32 × 1.5 (308 × 211.4 × 38 mm)											
Weight (lbs)	4.74 (2.15 kg)											
Enclosure rating	Outdoor-NEMA Type 6 (1 m, 1 h)											
Cooling	Natural convection – No fans											
Features												
Communication	Sub-1G											
Topology	Galvanically Isolated HF Transformer											
Monitoring	S-Miles Cloud (Hoymiles monitoring platform)											
Compliance	UL 1741, UL 1741 SB, IEEE 1547, CSA C2.2 No.107.1-16, FCC 15B, FCC 15C											
PV Rapid Shutdown	Conforms with NEC-2017 and NEC-2020 Article 690.12 and CEC-2021 Sec 64-218 Papid Shutdown of PV Systems											

* : Nominal voltage/frequency range can vary depending on local requirements.
** : Refer to local requirements for an exact number of microinverters per branch.