

# Microinverter Datasheet

**MIT-4000-8T**  
**MIT-4500-8T**  
**MIT-5000-8T**

## Description

Hoymiles new generation microinverter MIT-5000-8T series is designed to accommodate eight high-powered PV modules, with output power up to 5000 VA and input current up to 20 A. Its four MPPTs maximize energy harvest, ensuring optimal performance.

The innovative 8-in-1 design significantly reduces system costs, making the MIT-5000-8T series a cost-effective choice.

The Sub-1G wireless solution ensures stable communication with Hoymiles gateway DTU, and enables module-level monitoring and remote O&M on Hoymiles Monitoring Platform S-Miles Cloud.

## Features

- 01 Three-phase output, ideal for commercial and industrial applications
- 02 Output power up to 5000 VA and input current up to 20 A, compatible with 182 mm/210 mm PV modules
- 03 Four MPPTs, optimizing power generation

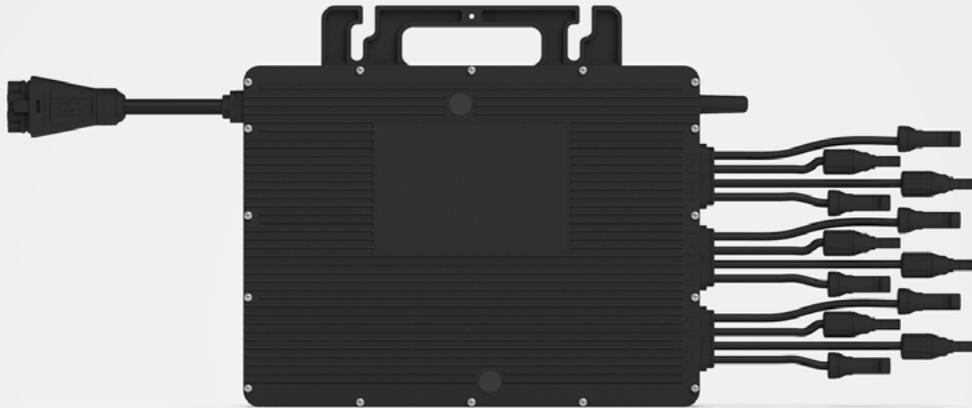
- 04 Low input voltage for safer rooftop installations, minimizing arc faults and electric shocks
- 05 8-in-1 design for quick installation with HMT Cable System, reducing costs
- 06 Sub-1G wireless solution for stable communication and convenient O&M

## Technical Specifications

Model	MIT-4000-8T	MIT-4500-8T	MIT-5000-8T
<b>Input Data (DC)</b>			
Commonly used module power (W)	400 to 650+	560 to 700+	600 to 750+
Maximum input voltage (V)	140		
Minimum/Maximum start-up voltage (V)	32/136		
MPPT voltage range (V)	12-136		
Peak power MPPT voltage range (V)	58-136	59-136	66-136
Maximum input current (A)	4 × 20		
Maximum input short circuit current (A)	4 × 25		
Number of MPPTs	4		
Number of inputs per MPPT	1		
<b>Output Data (AC)</b>			
Grid type	Three Phase		
Rated output power (VA)	4000	4500	5000
Peak output power (VA)	4400	4950	5500
Maximum output current (A)	3 × 5.79	3 × 6.52	3 × 7.25
Nominal output voltage (V)	230/400, 3L+N+PE		
Nominal frequency (Hz)*	50/60		
Nominal range (Hz)*	45-55 / 55-65		
Adjustable power factor (@rated power)	>0.99 default 0.8 leading ... 0.8 lagging		
Total harmonic distortion (@rated power)	< 3%		
Maximum units per 2.5 mm <sup>2</sup> branch**	4	3	3
Maximum units per 4 mm <sup>2</sup> branch**	5	4	4
Maximum units per 6 mm <sup>2</sup> branch**	6	6	5
<b>Efficiency</b>			
Peak efficiency	97.50%	97.60%	97.70%
EU weighted efficiency	96.50%	96.70%	96.80%
Nominal MPPT efficiency	99.80%		
Night power consumption (mW)	< 50		
<b>Mechanical Data</b>			
Ambient temperature range (°C)	-40 to +65		
Storage temperature range (°C)	-40 to +85		
Dimensions (W × H × D [mm])	395 × 308 × 60		
Weight (kg)	8.6		
Enclosure rating	Outdoor-IP67		
Cooling	Natural convection-No fans		
<b>Features</b>			
Communication	Sub-1G		
Topology	Transformerless		
Monitoring	S-Miles Cloud (Hoymiles Monitoring Platform)		
Compliance	EN 50549-1: 2019, EN 50549-10:2022 IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 61000-3-2/-3, UL 1741		

\* : The parameter may vary depending on local requirements.

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



## Microinverter Datasheet

**HMT-1800**  
**HMT-2250**

### Description

The world's first three-phase microinverter with Reactive Power Control, can be widely used in the general 230V/400V three-phase electric power distribution.

Each microinverter, with up to 6 PV modules connected, simplifies the installation process and ranks among the most cost effective solutions for commercial and industrial installations.

### Features

01

Three-phase output, more suitable for commercial and industrial applications

02

Up to 2250VA output, adapted to mainstream high-powered PV modules

03

Each microinverter, with up to 6 PV modules connected, simplifies the installation process and ranks among the most cost effective solutions for commercial and industrial installations

04

With Reactive Power Control, meets the requirements of EN50549-1:2019, VDE-AR-N 4105:2018, TOR Erzeuger : 2019-12, etc.

05

The Sub-1G wireless solution enables the stable communication when installed for commercial and industrial stations

## Technical Specifications

Model	HMT-1800-6T	HMT-2250-6T
<b>Input Data(DC)</b>		
Commonly used module power(W)	240~380	300~470
Peak power MPPT voltage range(V)	29~48	36~48
Start-up voltage(V)	22	
Operating voltage range(V)	16~60	
Maximum input voltage(V)	60	
Maximum input current(A)	6*11.5	
<b>Output Data(AC)</b>		
Grid connection	Three phase	
Rated output power(VA)	1800	2250
Rated output current(A)	2.61*3	3.26*3
Nominal output voltage/range(V) <sup>1</sup>	230Vac/400Vac, 3W+N+PE	
Nominal frequency/range(Hz) <sup>1</sup>	50/60	
Power factor(adjustable)	>0.99 default 0.8 leading...0.8 lagging	
Total harmonic distortion	<3%	
Maximum units per 12AWG branch <sup>2</sup>	7	6
Maximum units per 10AWG branch <sup>2</sup>	11	9
<b>Efficiency</b>		
CEC peak efficiency	96.5%	
Nominal MPPT efficiency	99.8%	
Night power consumption(mW)	< 50	
<b>Mechanical Data</b>		
Ambient temperature range(°C)	-40 ~ +65	
Dimensions(W×H×D mm)	330*250*35	330*250*37
Weight(kg)	5.5	6.0
Enclosure rating	Outdoor-NEMA6(IP67)	
Cooling	Natural convection-No fans	
<b>Features</b>		
Communication	Sub-1G	
Monitoring	Hoymiles Monitoring System	
Compliance	VDE-R-N 4105: 2018, EN 50549-1: 2019, TOR Erzeuger : 2019-12, IEC/EN 62109-1/-2, IEC/EN 61000-3-2/-3, IEC/EN 61000-6-1/-2/-3/-4	

\*1 Nominal voltage/frequency range can be changed due to the requirements of local power department.

\*2 Refer to local requirements for exact number of microinverters per branch.