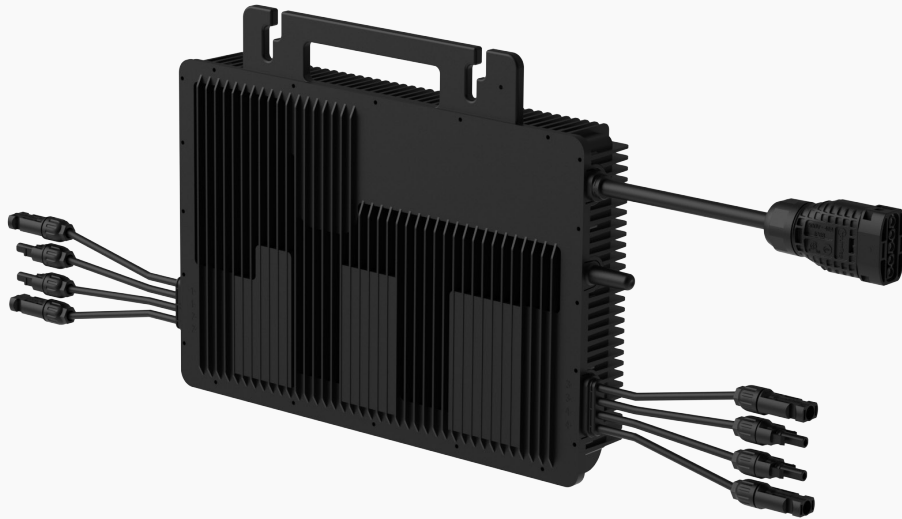




Microinverter Datasheet

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 Flex-T5 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
Input Data (DC)			
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		
Output Data (AC)			
Grid type	Three Phase		
Rated output power (VA)	4000	4500	5000
Rated 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 mm² branch**	3	3	3
Maximum units per 4 mm² branch**	5	4	4
Maximum units per 6 mm² branch**	6	5	5
Efficiency			
Peak efficiency	97.40%	97.40%	97.40%
EU weighted efficiency	96.10%	96.30%	96.40%
Nominal MPPT efficiency	99.80%		
Night power consumption (mW)	< 50		
Mechanical Data			
Ambient temperature range (°C)	-40 to +65		
Storage temperature range (°C)	-40 to +85		
Dimensions (W × H × D [mm])	395 × 308 × 60		
Weight (kg)	9		
Enclosure rating	Outdoor-IP67		
Cooling	Natural convection-No fans		
Features			
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 3741		

* : The parameter may vary depending on local requirements.

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