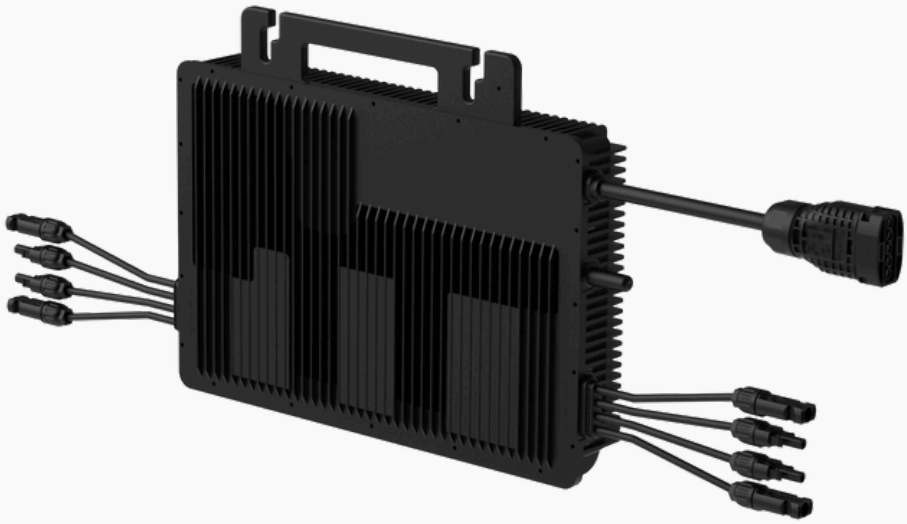

Microinverter Datasheet

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

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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		32/136	
(V) MPPT voltage range (V) Peak power		12-136	
MPPT voltage range (V) Maximum	58-136	59-136	66-136
input current (A) Maximum input short		4 × 20	
circuit current (A) Number of MPPTs		4 × 25	
Number of inputs per MPPT		4	
Output Data (AC)			
Grid type Rated output power (VA)		1	
Rated output current (A) Nominal			
output voltage (V) Nominal frequency		Three Phase	
(Hz)* Nominal range (Hz)*	4000	4500	5000
	3 × 5.79	3 × 6.52	3 × 7.25
		230/400, 3L+N+PE	
		50/60	
		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 1741	

* : The parameter may vary depending on local requirements.
**: Refer to local requirements for exact number of microinverters per branch.

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