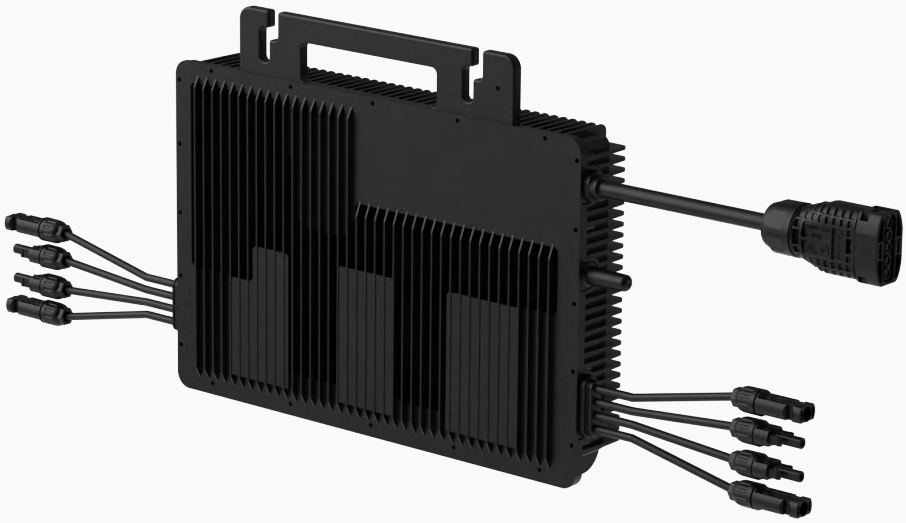


Microinverter Datasheet

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 (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 × 6.06	3 × 5.79	3 × 6.82	3 × 6.52	3 × 7.58	3 × 7.25
Nominal output voltage (V)	220/380, 3L+N+PE	230/400, 3L+N+PE	220/380, 3L+N+PE	230/400, 3L+N+PE	220/380, 3L+N+PE	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**	4	4	3	4	3	3
Maximum units per 4 mm² branch**	5	5	4	5	4	4
Maximum units per 6 mm² branch**	6	6	5	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.

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