

MICRO INVERTER

HYX-M300/400/500-S

HYX-M300/400/500-SW

Version 1.2-2603

Design and specifications are subject to change without notice

**Efficient
& Optimized**

- Start-Up of 20V, 150% Overload Capacity for Higher Energy Yield
- Module-Level MPPT, Supports 1 PV Module with 500VA Max. Output
- 16A Design, Ideal for High-Power PV Modules

**Smart
& Manageable**

- Intelligent Layout with Rapid Module-Level Visualization
- Module-Level Monitoring for Precise Fault Positioning
- One-Click OTA Enabling Fast Fault Resolution

**Safe & Reliable**

- Built-In Relay for Emergency Physical Disconnection
- EMC-Certified for Household Safety-Level Radiation
- 60V Low-Voltage Operation, 6000V Surge Protection
- IP67, Weatherproof and Stable

**Easy & Flexible**

- Compact Hook Design, Easy Installation
- Plug and Play with Flexible Scalability
- Sub-1G and Wi-Fi Support, iMesh for Stability

Technical Specifications

HYX-M300/400/500-S

HYX-M300/400/500-SW

Product Model	HYX-M300-S HYX-M300-SW	HYX-M400-S HYX-M400-SW	HYX-M500-S HYX-M500-SW
Input (DC)			
Typical Module Compatibility	240 - 450* W	320 - 600* W	400 - 670* W
Min./Max. MPPT Voltage		16 - 60V	
Max. Input Voltage		65V	
Start-up Input Voltage		20V	
Max. Input Current		16A	
Max. Short-circuit DC Input Current		20A	
Output (AC)			
Nominal Output Power	300VA	400VA	500VA
Nominal Output Current	1.36A / 1.30A / 1.25A	1.82A / 1.74A / 1.67A	2.27A / 2.17A / 2.08A
Nominal Output Voltage		220V / 230V / 240V	
Adjustable Output Voltage Range		183 - 276V	
Nominal Frequency		50 / 60Hz	
Adjustable Output Frequency Range		45 - 55Hz, 55 - 65Hz	
Power Factor (default / adjustable)		>0.99 / 0.8 leading...0.8 lagging	
THDi		< 3%	
Max. Units Per 10AWG Branch	20 / 21 / 22	15 / 16 / 16	12 / 12 / 13
Max. Units Per 12AWG Branch	15 / 16 / 17	11 / 12 / 13	9 / 10 / 10
Efficiency			
Peak Efficiency		96.70%	
Nominal MPPT Efficiency		99.80%	
Night-time Power Loss		<30mW	

Technical Specifications

HYX-M300/400/500-S
HYX-M300/400/500-SW

Product Model	HYX-M300-S HYX-M300-SW	HYX-M400-S HYX-M400-SW	HYX-M500-S HYX-M500-SW
General Data			
Operating Ambient Temperature	- 40 to + 65°C		
Dimensions (W*H*D)	188*178*25mm		
Degree of Protection	Ip67		
Cooling	Natural Cooling - No fans		
Weight	1.7kg		
Features			
Communication ¹	Sub-1G / Built-in WiFi		
Type of Isolation	High frequency transformers, Galvanically isolated		
Warranty	12 years standard, 25 years optional		
Protection			
Input Reverse Connection Protection	Yes		
Output Overcurrent Protection	Yes		
Output Overvoltage Protection	Yes		
Anti-islanding Protection	Yes		
Output Short-circuit Protection	Yes		

1: **Sub-1G:** HYX-M600/700/800/900/1000-S, **Built-in WiFi:** HYX-M600/700/800/900/1000-SW
Nominal voltage/frequency range can vary depending on local requirements.
Refer to local requirements for exact number of microinverters per branch.