MICRO INVERTER

SOI-M300/400/500-S

SOI-M300/400/500-SW

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

Efficient & Optimized

- Start-up of 20V, 150% overload capacity for higher energy yield
- Module-level MPPT, supports 1 PV module with 500V max. output
- 16A design, ideal for high-power PV modules

Easy & Flexible

- Compact hook design, easy installation
- Plug-and-play with flexible scalability
- Sub-1G and WiFi support, iMesh for stability

Smart & Manageable

- Intelligent layout with rapid module-level visualization
- Module-level monitoring for precise fault positioning
- One-click OTA enabling fast fault resolution

Product Model	SOI-M300-S SOI-M300-SW	SOI-M400-S SOI-M400-SW	SOI-M500-S SOI-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	29 / 30 / 32	21 / 22 / 23	17 / 18 / 19
Max. Units Per 12AWG Branch	22 / 23 / 24	16 / 17 / 17	13 / 13 / 14
Efficiency			
Peak Efficiency		96.70%	
Nominal MPPT Efficiency		99.80%	
Night-time Power Loss		< 30mW	
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:** SOI-M300/400/500-S , **Built-in WiFi:** SOI-M300/400/500-SW

SUNPLUS OPTIMUM INC 90 State Street, Suite 700, Office 40, Albany, NY, 12207 | TEL +1 (209) 389-9861 | EMAIL info@wesunplus.com | WEB www.wesunplus.com