



SG400/450/500 (1-IN-1 VERSION)



NEWEST STRONG COMMUNICATION SUB-1G.



CLEVER LED POSTION ON EDGE, ALWAYS VISIBLE.



SAFE DESIGN WITH CONNECTORS SHIELD.

Description

SOLENSO's SG500 microinverter, at 500VA, lead the industry's new development trend.

Integrated with advanced module-level MPPT and datamonitring functions, boosts power generation, simplifies maintenance.

Sub-1G wireless communication technology ensures a stable communication for products in harsh environments.

Features



The microinverter has a maximum output power of 500VA.



Module-level MPPT and data monitoring, enhancing power generation efficiency and simplifying operation and maintenance.



DC-end crash protection added, easier installation and lower cost for the SOLENZO 1 in 1 unit Microinverter SG400/SG450/SG500.



Designed life time more than 25 years, it offers exceptional quality, durability, and long-term stability.



Compliance: IEC/EN62109-1:2010, IEC/EN62109-2:2011, IEC/EN61000-6-1:2019, IEC/EN61000-6-3:2021, RF-EMC, EN50549-1, EN50549-10, VDE4105

Technical Specifications

Model	SG400	SG450	SG500
Input Data (DC)			
Commonly used module power (W)	320~540+	400~600+	400~670+
Peak power MPPT voltage range (V)	25~55		
Start-up voltage (V)	22		
Maximum input voltage (V)	65		
Maximum input current (A)	14	15	16
Output Data (AC)			
Rated output power (VA)	400	450	500
Nominal output voltage (V)	220/230/240		
Nominal output voltage range (V)	230/180-275		
Nominal frequency/range (Hz)	50/45-55		
Power factor (adjustable)	> 0.99 default 0.8leading-0.8lagging		
Total harmonic distortion	<3%		
Maximum units per branch (12AWG)	15/15/16	13/14/14	12/12/13
Maximum units per branch (10AWG)	20/21/22	18/19/19	16/17/17
Efficiency			
CEC peak efficiency	96.5%		
CEC weighted efficiency	96.5%		
Nominal MPPT efficiency	99.9%		
Night-time power consumption (mW)	21		
Mechanical Data			
Ambient temperature range (°C)	-40 ~ +65		
Dimensions (W × H ×D mm)	282.5x171.5x30.5		
Weight (KG)	1.7		
Protective rating (IP)	IP67		
Cooling	Natural convection-No fans		
Features			
Communication	Sub-1G		
Warranty	15 years standard; up to 25 years optional		
Compliance	VDE-AR-N 4105:2018, EN50549-1:2019, EN50549-10:2022 VFR2019, AS 4777.2:2015, IEC/EN 62109-1/-2, IEC/EN 61000-3-2/-3, IEC/EN-61000-6-1/-2/-3/-4		