



# S450S-L/S1000S-L/S2000S-L Microinverter

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## HIGH YIELD

- Compatible with high power PV modules
- Innovative thermal design, maintains rated power in high temperature conditions



## SMART O&M

- Module level monitoring
- Remote firmware upgrades



## EASY INSTALLATION

- Extended range WiFi technology
- Setup and commissioning in one touch



## SAFE & RELIABLE

- Integrated AC relay
- Does not sustain electric arcs due to low DC input voltage



Type designation	S450S-L	S1000S-L	S2000S-L
Input ( DC )			
Recommended PV module power range		450 W - 650 W	
Max. PV input voltage		60 V	
Min. PV input voltage / Startup input voltage		16 V / 22 V	
MPPT voltage range *		16 V - 60 V	
No. of independent MPP inputs	1	2	4
Max. PV input current	16 A * 1	16 A * 2	16 A * 4
Max. DC short-circuit current	20 A * 1	20 A * 2	20 A * 4
Output ( AC )			
Grid type		Single phase	
Rated AC output power	450 W	1000 W	2000 W
Max. AC output apparent power	450 VA	1000 VA	2000 VA
Max. AC output current	2.1 A	4.6 A	9.1 A
Rated AC output current ( at 230 V )	2.0 A	4.4 A	8.7 A
Rated AC voltage		220 V / 230 V / 240 V	
AC voltage range **		154 V - 277 V	
Rated grid frequency		50 Hz / 60 Hz	
Grid frequency range		45 Hz - 55 Hz 55 Hz - 65 Hz	
Harmonic ( THD )		< 5 % ( at rated power )	
Power factor at rated power / Adjustable power factor		> 0.99 / 0.95 leading - 0.95 lagging	
Maximum units per branch ***	14	6	3
Efficiency			
Max. efficiency		96.2 %	
European efficiency		95.4 %	
Protection & function			
Grid monitoring		Yes	
Leakage current protection		Yes	
PV module-level monitoring		Yes	
Surge protection		AC type II	
General data			
Dimensions ( W * H * D )	238mm*168mm*42mm	265mm*226mm*42mm	381mm*286mm*58mm
Weight	2.5 kg	3.5 kg	8.5 kg
Mounting method		Bracket Mounted	
Topology		High Frequency Transformers	
Degree of protection		IP67	
Night power consumption		< 50 mW	
Operating ambient temperature range		-40 °C - 65 °C	
Allowable relative humidity range ( non-condensing )		100 %	
Cooling method		Natural cooling	
Max. operating altitude		2000 m	
Display		LED	
Communication		WLAN	
DC connection type		MC4 compatible	
AC connection type		Plug and play connector	
Certification compliance	IEC / EN 62109-1/-2, IEC 62116, IEC 61683, EN 50530, IEC 61000-3-2:2006 IEC / EN - 61000-3-12, IEC 60529		

\* Please refer to the user manual for the full load MPPT voltage range

\*\* Voltage could vary within the supporting range according to the application scenario

\*\*\* Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area

