



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



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