

S450S/S800S/S1000S/S1600S
Microinverter

HIGH YIELD
- Long operation with higher yield
- Effective heat dissipation via specially manufactured rear side

SMART O&M
- Identify installation problems by smart detection

EASY INSTALLATION
- DC MC4 terminals and AC busbar clamp terminals
- Perfect cable length to cover all scenarios
- One click settings for all

SAFE & RELIABLE
- 100% meet safety requirements
- No high DC voltage, No arc risk
- Harsh enviroment protection IP67 & C5

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SUNGROW
Clean power for all

Type designation	S450S	S800S	S1000S	S1600S
Input (DC)				
Recommended PV module power range	375 W - 570 W	375 W - 570 W	375 W - 650 W	375 W - 570 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	2	4
Max. PV input current	16 A * 1	16 A * 2	16 A * 2	16 A * 4
Max. DC short-circuit current	20 A * 1	20 A * 2	20 A * 2	20 A * 4
Output (AC)				
Grid Type	Single phase			
Rated AC output power	450 W	800 W	1000 W	1600 W
Max. AC output apparent power	450 VA	800 VA	1000 VA	1600 VA
Max. AC output current	2.1 A	3.6 A	4.6 A	7.3 A
Rated AC output current (at 230 V)	2.0 A	3.5 A	4.4 A	7.0 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 / 0.8 leading - 0.8 lagging			
Maximum units per branch (2.5 mm²) ***	10	6	5	3
Efficiency				
Max. efficiency	96.2%			
European efficiency	95.4%			
Protection & function				
Grid monitoring	Yes			
Leakage current protection	Yes			
PV module-level monitoring	Yes			
Rapid shutdown	Yes			
Surge protection	AC type II			
General data				
Dimensions (W * H * D)	238 * 168 * 42 mm	265 * 226 * 42 mm	265 * 226 * 42 mm	361 * 271 * 55 mm
Weight	2.5 kg	3.5 kg	3.5 kg	7.5 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	Stäubli MC4			
AC connection type	Plug and play connector			
Certification compliance	EN / IEC 62109 -1/-2, EN / IEC 61683, EN50530, EN / IEC 61000 -6 -1/-2/-3/-4, VDE 4105, VDE 0126, UNE217002, CEI0-21, IEC 60529, IEC62116, EN50549, PSE RFG, EN 301489, EN 300328, EN / IEC 62311, ETSI EN 303 645			

* 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.

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