

# S450S/S800S/S1600S Microinverter

NEW



## 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 environment protection IP67 & C5

Type designation	S450S	S800S	S1600S
<b>Input ( DC )</b>			
Recommended PV module power range	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	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
<b>Output ( AC )</b>			
Grid Type	Single phase		
Rated AC output power	450 W	800 W	1600 W
Max. AC output apparent power	450 VA	800 VA	1600 VA
Max. AC output current	2.1 A	3.6 A	7.3 A
Rated AC output current ( at 230 V )	2.0 A	3.5 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 mm <sup>2</sup> ) ***	10	6	3
<b>Efficiency</b>			
Max. efficiency	96.2%		
European efficiency	95.4%		
<b>Protection &amp; function</b>			
Grid monitoring	Yes		
Leakage current protection	Yes		
PV module-level monitoring	Yes		
Rapid shutdown	Yes		
Surge protection	AC type II		
<b>General data</b>			
Dimensions ( W * H * D )	238 * 168 * 42 mm	265 * 226 * 42 mm	361 * 271 * 55 mm
Weight	2.5 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 to 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, CE10-21, 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.