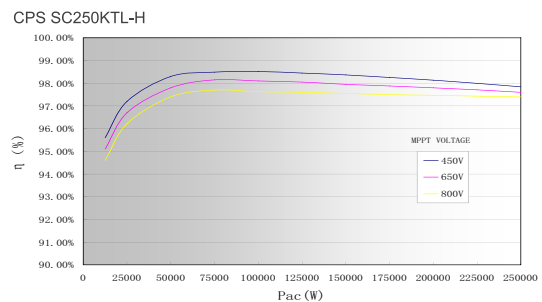
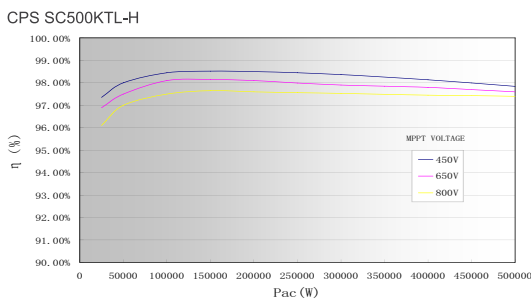




# 250kW & 500kW Grid-tied PV Inverter

CPS SC500KTL-H and CPS SC250KTL-H grid-tied PV inverters are TUV certified and are designed to be used in different types of commercial rooftop and utility scale PV systems. The DC input voltage range can reach up to 1000V allowing for more flexible the system configuration. Built using low loss magnetic material and advanced control algorithm, these inverters can reach a maximum efficiency of 98.5%.

## Efficiency Curve



### High Efficiency

- Max. efficiency of 98.5%, Euro efficiency of 98.3%
- ≥99.9% MPPT efficiency
- Space vector PWM
- Two paralleled modules topology, to improve light load efficiency and reliability (SC500KTL-H)

### High Reliability

- Designed for reliability
- Comprehensive protection functions
- Double DSP + Double MCU realize multiple protection
- Advanced thermal design, fan speed control
- Embedded ground-fault circuit & Interrupter
- 5 years standard warranty; optional additional 15 years

### Broad Adaptability

- Multi-language display & Powerful communication interface
- High altitude application
- LVRT function
- Reactive power adjusting, active power derating
- External low-frequency transformer (Optional)
- Negative grounded mode is optional
- 3rd Party Monitoring



Model Name	CPS SC250KTL-H	CPS SC500KTL-H
<b>DC Input</b>		
Nominal DC Input Power	255kW	510kW
Max. DC Input Power	275kW	550kW
Max. DC Input Voltage	1000Vdc	
Operating DC Input Voltage Range	450-820Vdc	
Start-up DC Input Voltage / Power	470V/3.5kW	
Nominal DC Input Voltage	600V	
MPPT Voltage Range	450-820Vdc	
Number of MPP Trackers	1	1
Number of DC Inputs (strings)	4	8
Max. Input Current	600A	1200A
DC Disconnection Type	Integrated Breaker	
PV Array Configuration	Standard: Floating; Optional: Negative grounded	
<b>AC Output</b>		
Rated AC Output Power	250kW	500kW
Max. AC Output Power	275kW	550kW
Rated Output Voltage	270Vac	
Output Frequency Range	-	
Output Voltage Range	215-310Vac	
Grid Connection Type	3 $\Phi$ /PE	
Max AC Output Current	588A	1176A
Rated Output Frequency	50Hz	
Power Factor	>0.99 ( $\pm$ 0.9 adjustable)	
Current THD	<3%	
AC Disconnection Type	Integrated Breaker	
<b>System</b>		
Topology	Transformerless	
Max. Efficiency	98.5%	
Euro Efficiency	98.0%	98.3%
Stand-by / Night Consumption	<100W	
<b>Environment</b>		
Protection Degree	IP20	
Cooling	Variable speed cooling fans	
Operating Temperature Range	-20°C to +60°C	
Operating Humidity	0-95%, non-condensing	
Operating Altitude	4000m	
<b>Display and Communication</b>		
Display	LCD+LED	
Communication	RS485	
<b>Mechanical Data</b>		
Dimensions (WxHxD) (mm)	1600x2100x806	2800x2100x806
Weight (kg)	1100	1800
<b>Safety</b>		
Safety and EMC Standards	LVD: 2006/95/EC, EMC: 2004/108/EC, IEC/EN 62109-1: 2010, IEC/EN 62109-2: 2011; IEC/EN61000-6-2: 2005, IEC/EN61000-6-4: 2007	
Grid Standards	IEC61727: 2004	

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