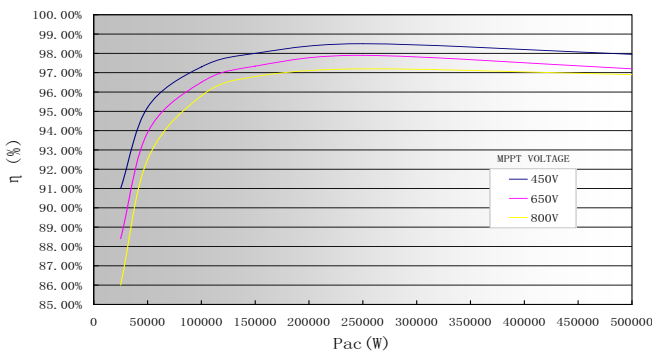


# 500kW Grid-Tie PV Inverter

CPS SC500KTL Grid-tie PV inverter can be flexibly utilized in different types of commercial rooftops and utility applications. Low loss magnetic materials, advanced MPPT control, variable structure SV PWM control and parallel topology adopted minimize the power loss to achieve high efficiency. Enhanced DSP control, comprehensive protection functions and advanced thermal design enable the whole system with high reliability.



Efficiency Curve



## High Reliability

- Design for Reliability
- Comprehensive protection functions
- Double DSP + Double MCU realize multiple protection
- Advanced thermal design, fan speed control
- Ground-fault Circuit & Interrupters Input insulation resistance detection

## High Efficiency

- Max. efficiency of 98.5%, Euro efficiency of 98%
- ≥99.9% MPPT efficiency
- Space vector PWM
- Two paralleled modules topology, to improve light load efficiency and reliability

## Broad Adaptability

- Multi-language display & Powerful communication interface
- High altitude application
- Low voltage ride through function
- Reactive power adjusting, active power derating (Optional)
- External low-frequency transformer (Optional)



(In application process)

## Chint Europe (UK) Ltd

Bracken Trade Park, Dumers Lane, Bury BL9 9QP  
 Tel : 0161 762 9333 Fax: 0161 762 9898  
 www.chintpower.com www.chint.co.uk  
 E-mail: sales@chint.co.uk

**Technical Data**

CPS SC500KTL

<b>DC Input</b>	
Max. DC Voltage*	880Vdc, 1000Vdc (optional)
MPPT Voltage Range	450~820Vdc
Max. DC Power	550kWp
Max. Input Current	1200A
Max. Number of Strings	16
MPP Tracker	1
<b>AC Output</b>	
Output Power	500kW
Nominal Output Voltage	270Vac, 3 phase
Grid Voltage	215~310Vac
Nominal Grid Frequency	50Hz
Current THD	<3%
Power Factor	~1
<b>System</b>	
Max. Efficiency	98.5%
Euro Efficiency	98%
Protection Degree	IP20
Stand-by consumption	<100W
Operating Temperature Range	-20°C ~ +60°C
Cooling	Forced cooling / RPM regulated fan
Humidity	0~95%, non-condensing
Altitude	4000m
<b>Display and Communication</b>	
Display	LCD
Communication	RS485, Ethernet (optional)
<b>Mechanical Data</b>	
Height (mm)	2150
Width (mm)	2800
Depth (mm)	850
Weight(kg)	1800

\*Note: Stresses beyond those listed under “Max. DC Voltage” may cause permanent damage to the device.

Information furnished is believed to be accurate and reliable. However, Chint Power Systems assumes no responsibility for the consequences of use of such information nor for any infringement of patents or other rights of third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of Chint Power Systems. Specifications mentioned in this publication are subject to change without notice. This publication supersedes and replaces all information previously supplied.