

# CPS SCA50KTL-DO/EU-400

Chint Power String Inverter  
High Return of the Whole Life Cycle



## Low Investment

Three-phase string series inverters not only are diversified products providing optional DC switch, integrated DC combiner box, standard class II lightning protection, optional string detecting board, PID protection module and GPRS/Wi-Fi/PLC/RS485 wireless communication, which can match the requirements of different customers, but also can support 10% rated overload which can efficiently decrease initial investment of system.

## High Profits

Three-phase string inverters can provide 98.5% maximum efficiency, 98.4% Euro efficiency, 99.5% MPPT efficiency, advanced topology design and international known device options, which can guarantee the profits of the Whole Life Cycle.

## Maintenance Warranty

Three-phase string inverters can provide standard warranty for 5 years, optional extended warranty for 10-25 years and smart operation platform, which can efficiently guarantee the maintenance of the Whole Life Cycle.

Model Name	CPS SCA50KTL-DO/EU-400
<b>DC Input</b>	
Rated DC Input Power	51.5kW
Max. DC Input Power/ each MTTP	67.5kW / 22.5kW
Max. DC Input Voltage	1100Vdc
Operating DC Input Voltage Range	200 - 1000Vdc
MPPT Voltage Range (Full Load)	540 - 850Vdc
Start-up DC Input Voltage/ Power	330V / 80W
Rated DC Input Voltage	635V
Number of MPPT / Number of DC Input	3 / 3+3+3
Max. Input Current	3 * 32A
DC Disconnection Type	Integrated DC Switch
<b>AC Output</b>	
Rated AC Output Power	50kW
Max. AC Output Power	55kVA
Rated Output Voltage	230 / 400Vac
Output Voltage Range*	320 - 460Vac
Grid Connection Type	3Φ / N(Optional) / PE
Max AC Output Current	80A
Rated Output Frequency	50Hz/60Hz
Output Frequency Range*	45Hz-55Hz/55Hz-65Hz
Power Factor	>0.99 (±0.8 adjustable)
Current THD	< 3%
AC Disconnection Type	-
<b>System Data</b>	
Topology	Transformerless
Max. Efficiency	98.50%
Euro Efficiency	98.40%
Stand-by / Night Consumption	< 20W / < 1W
<b>Environment Data</b>	
Protection Degree	IP65
Cooling	Variable speed cooling fans
Operating Temperature Range	-25°C - +60°C (derating from +45°C)
Operating Humidity	0 - 100%, Non-condensing
Operating Altitude	4000m (derating from 3000m)
<b>Display and Communication</b>	
Display	LCD + LED
Communication	Standard: RS485 / Option:PLC & Ethernet
<b>Mechanical Data</b>	
Dimensions (W*H*D) [mm]	600 * 826 * 260
Weight [kg]	65
<b>Safety</b>	
Safety and EMC Standard	LVD: 2006/95/EC EMC: 2004/108/EC, IEC/EN 62109-1:2010, IEC/EN 62109-2: 2011, IEC/EN61000-6-2: 2005, IEC/EN61000-6-3: 2007, NB/T 320004-2014;GT/T19964-2012
Grid Standard	IEC61727/ IEC62116