

CHINT 50kW

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 99% 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/400
DC Input	
Rated DC Power	51.5kW
Max. DC Power/Max. DC Power per MPPT	67.5kW / 22.5kW
Max. DC Voltage	1100Vdc
MPPT Voltage Range	200 - 1000Vdc
MPPT Voltage Range (Full Load)	540 - 850Vdc
Start Voltage/Power	330V / 80W
Rated DC Voltage	635V
Number of MPPT/Max. Number of DC Connection Sets	3 / 3
Max. DC Current	33 * 3A
DC Disconnection Type	Integrated Switch
AC Output	
Rated AC Power	50kW
Max. AC Power	55kVA
Rated AC Voltage	3 * 230 / 400Vac
AC Voltage Range*	320 - 460Vac
Grid Connection Type	3 Φ / N(Optional) / PE
Max. AC Current	80A
Rated Frequency	50Hz
Grid Frequency Range*	47 - 53Hz
Power Factor (cos ϕ)	\pm 0.8 (adjustable)
Current THD	< 3%
AC Disconnection Type	-
System Data	
Topology	Transformerless
Max. Efficiency	99%
Euro Efficiency	98.40%
Consumption at Standby/Night	< 20W / < 1W
Environment Data	
Ingress Protection	IP65
Cooling Method	Cooling Fans
Operating Temperature Range	-25°C - +60°C (+45°C with derating)
Ambient Humidity	0 - 100%, Non-condensing
Altitude	4000m (3000m with derating)
Display and Communication	
Display	LCD + LED
Communication	RS485 (Standard) / Wi-Fi & Ethernet & GPRS (Optional)
Mechanical Data	
Dimensions (W*H*D) [mm]	600 * 826 * 260
Weight [kg]	64
Safety	
Certifications	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

* "Output Voltage Range" and "Output Frequency Range" may be differ according to specific grid codes.