

CPS SCH100/125KTL-DO

Chint Power 1500V 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, 98.5% 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 SCA100KTL-DO/US-600	CPS SCA125KTL-DO/US-600
DC Input		
Max. PV Power	150kW	187.5kW
Max. DC Input Voltage		1500V
Operating DC Input Voltage Range		860-1450Vdc
Start-up DC Input Voltage / Power		900V / 250W
Number of MPP Trackers		1
MPPT Voltage Range		870-1300Vdc
Max. PV Input Current (Isc x1.25)	220A	275A
Number of DC Inputs	16 inputs	20 inputs
DC Disconnection Type		Load rated DC switch
DC Surge Protection		Type II MOV, Up=2.5kV , In=20kA(8/20us)
AC Output		
Rated AC Output Power	100kW	125kW
Max. AC Output Power ¹	100kVA (111KVA @ PF>0.9)	125kVA (132KVA @ PF>0.95)
Rated Output Voltage		600Vac
Output Voltage Range ²		528-660Vac
Grid Connection Type ³		3Φ / PE / N (Neutral optional)
Nominal AC Output Current @600Vac	106.9A	127.2A
Rated Output Frequency		60Hz
Output Frequency Range ²		57-63Hz
Power Factor	>0.99 (±0.8 adjustable)	>0.99 (±0.8 adjustable)
Current THD		<3%
AC Disconnection Type		Load rated AC switch (Standard Wire-box only)
AC Surge Protection		Type II MOV, Up=2.5kV , In=20kA(8/20us)
System		
Topology		Transformerless
Max. Efficiency		99.0%
CEC Efficiency		98.5%
Stand-by / Night Consumption		<2W
Environment		
Enclosure Protection Degree		NEMA Type 4X
Cooling Method		Variable speed cooling fans
Operating Temperature Range		-22°F to +140°F / -30°C to +60°C (derating from +113°F / +45°C)
Non-Operating Temperature Range ⁴		-40°F to +158°F / -40°C to +70°C maximum ⁴
Operating Humidity		0-100%
Operating Altitude		8202ft / 2500m (no derating)
Audible Noise		<65dBA@1m and 25°C
Display and Communication		
User Interface and Display		LED Indicators, WiFi + APP
Inverter Monitoring		Modbus RS485, PLC Option (Standard Wire-box only)
Site Level Monitoring		CPS Flex Gateway (1 per 64 inverters)
Modbus Data Mapping		SunSpec/CPS
Remote Diagnostics/FW Upgrade Functions		Standard
Mechanical		
Dimensions (WxHxD)		45.28x24.25x9.84in (1150x616x250mm) with Standard Wire-box 39.37x24.25x9.84in (1000x616x250mm) with Centralized Wire-box
Weight		Inverter: 121lbs / 55kg; Wire-box: 55lbs / 25kg (standard); 33lbs / 15kg (centralized)
Mounting/Installation Angle		15 - 90 degrees from horizontal (vertical, angled)
AC Termination ⁵		M8 Stud Type Terminal Block (Wire range: #6 - 3/0AWG CU/AL ⁵ , Lugs not supplied)
DC Termination		Screw Clamp Fuse Holder (Wire range: #12 - #6AWG CU) - Standard Wire-box Busbar, M8 PEMserts (Wire range: #1AWG - 250kcmil CU/AL, Lugs not supplied) - Centralized Wire-box
Fused String Inputs		20A fuses provided (Fuse values of 15/25/30A available)
Safety		
Safety and EMC Standard		UL1741SA-2016 ⁶ , UL1699B, CSA-C22.2 NO.107.1-01, IEEE1547a-2014; FCC PART15
Grid Standard ⁶		IEEE 1547a-2014, CA Rule 21 ⁶
Smart-Grid Features		Voltage-RideThru, Frequency-RideThru, Soft-Start, Volt-Var, Frequency-Watt
Warranty		
Standard		5 years
Extended Terms		15 and 20 years

1) "Max. AC Apparent Power" rating valid within MPPT voltage range and temperature range of -30°C to +40°C (-22°F to +104°F) for 100KW PF ≥0.9 and 125KW PF ≥0.95

2) The "Output Voltage Range" and "Output Frequency Range" may differ according to the specific grid standard.

3) Wye neutral-grounded, Delta may not be corner-grounded.

4) See user manual for further requirements regarding non-operating conditions.

5) AL requires bi-metallic compression lug or bi-metallic adapter.

6) Certifications Pending.