

CPS SCA1~3.6KTL-S

Chint Power Single-phase Inverter
High Return of the Whole Life Cycle



Low Investment

Single-phase string series inverters not only are diversified products providing optional DC switch and GPRS/Wi-Fi/RS485 wireless communication, which can match the requirements of different customers, but also can support 10% rated overload and no-screen design, which can efficiently decrease initial investment of system.

High Profits

Single-phase string inverters can provide 97.6% maximum efficiency, 97.3% Euro efficiency, 99.5% MPPT efficiency, fan-less topology design and international known device options, which can guarantee the profits of the Whole Life Cycle.

Maintenance Warranty

Single-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 SCA1KTL-S	CPS SCA2KTL-S	CPS SCA2.5KTL-S	CPS SCA3KTL-S	CPS SCA3.6KTL-S
DC Input					
Rated DC Power	1150W	2250W	2800W	3350W	4000W
Max. DC Voltage	600Vdc				
MPPT Voltage Range	90 - 580Vdc				
Rated DC Voltage	360Vdc				
Start Voltage	90Vdc				
Min. DC Voltage	70Vdc				
Max. DC Current	11A				
Number of DC Connection Sets per MPPT	1				
Number of MPPT	1				
DC Switch	Optional				
AC Output					
Rated AC Power	1000W	2000W	2500W	3000W	3600W
Max. AC Power	1100VA	2200VA	2750VA	3300VA	3960VA
Rated AC Current	4.5A	9.1A	11.4A	13.6A	16.4A
Max. AC Current	4.8A	9.5A	11.9A	14.3A	17.2A
Rated AC Voltage / Range	220V, 230V, 240V / 180 - 280V				
Grid Frequency / Range	50 ± 5Hz				
Power Factor (cosφ)	±0.8(adjustable)				
Current THD	< 3%				
Grid Connection Type	L + N + PE				
Efficiency					
Max. Efficiency	97.4%	97.4%	97.6%	97.6%	97.6%
Euro Efficiency	96.1%	96.8%	97.3%	97.3%	97.3%
MPPT Efficiency	> 99.5%				
Protection					
Internal Over-voltage Protection	Integrated				
DC Insulation Monitoring	Integrated				
DCI Monitoring	Integrated				
GFCI Monitoring	Integrated				
Grid Monitoring	Integrated				
AC Short Circuit Current Protection	Integrated				
Thermal Protection	Integrated				
Anti-islanding Protection Monitoring	AFD				
Interface					
AC Connection	Plug-in Connector				
DC Connection	MC4 / H4				
LCD / LED Display	LED * 3+APP(Bluetooth)				
Language	Chinese / English				
Communication	RS232 (Standard) / Wi-Fi & GPRS & RS485(Optional)				
General Data					
Topology	Transformerless				
Consumption at Night	< 0.2W				
Consumption at Standby	6W				
Operating Temperature Range	-25°C to +60°C (45°C to 60°C with derating)				
Cooling Method	Natural Convection				
Ambient Humidity	0 - 100%, Non-condensing				
Altitude	4000m (2000m with derating)				
Noise	< 25dBA				
Ingress Protection	IP65				
Dimensions (W*H*D) [mm]	285 * 336 * 125				
Weight [kg]	8.8				
Warranty [year]	5 (Standard) / 10 / 15 / 20 / 25 (Optional)				
Certifications	IEC62109-1/2, IEC61000-6-1/2/3/4, IEC61727/62116, IEC61683				