

1~3kW Grid-tied PV Inverters

Shanghai Chint Power Systems Co., Ltd. has been dedicating to the development of PV inverters which are widely welcomed by customers from domestic and abroad. With our consistent research and development, Chint Power launches SCJ series as a new generation of Grid-tied PV inverters.

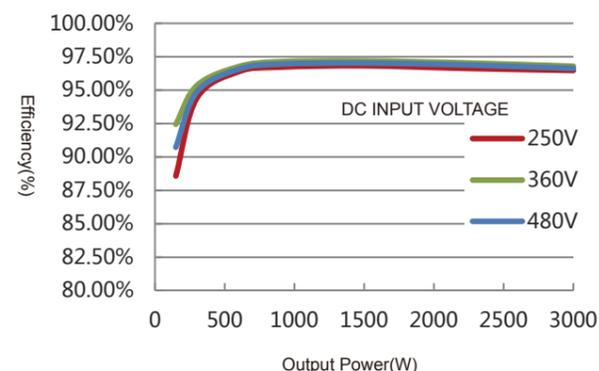
CPS SCJ 1-3kW series PV inverters are applicable to various kinds of residential and commercial rooftops. Compact size, fanless design and comprehensive protection raise the reliability of the PV system and ensure the generation yield is stable for customers in the long run. The Max. conversion efficiency of the product reaches up to 97.2%; Euroefficiency is 96.8% and MPPT efficiency is 99.5%. Integrated DC switch is optional for CPS SCJ 1-3kW series PV inverters. Multiple communication methods are also available to enhance the safety and communication capabilities of CPS SCJ 1-3kW series inverters.



CPS SCJ1KTL-S CPS SCJ1.5KTL-S
CPS SCJ2KTL-S CPS SCJ2.5KTL-S
CPS SCJ3KTL-S

Efficiency Curve

CPS SCJ 1~3KTL-S



High Efficiency

- Max. efficiency up to 97.2%
- Euro efficiency is 96.8%
- MPPT efficiency is 99.5%

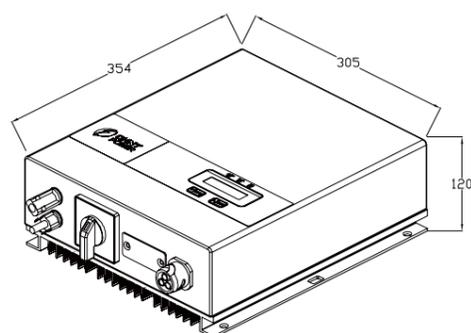
Reliability

- Comprehensive protection functions
- Fanless compact design, maintenance free

Flexibility

- Super wide input voltage range(50V~550V), supporting all varieties of solar panels and string designs
- Integrated RS232/Wi-Fi/GPRS interfaces
- IP65 protection degree, outdoor application available

Dimensions (mm)



2-3KW Dimension Diagram



Type	CPS SCJ1KTL-S	CPS SCJ1.5KTL-S	CPS SCJ2KTL-S	CPS SCJ2.5KTL-S	CPS SCJ3KTL-S
Input (DC)					
Max. DC Power [W]	1200	1800	2400	2900	3200
Max. DC Voltage [V]	450			500	550
MPPT Voltage Range [V]	60-425			60-450	60-500
Nominal DC Voltage [V]			360		
Start Voltage [V]			70		
Min. DC Voltage [V]			50		
Max. DC Input Current [A]			11		
Number of DC Connection Sets per MPPT			1		
Number of MPPT			1		
DC Switch			Optional		
Output (AC)					
Rated AC Power [W]	1000	1500	2000	2500	3000
Max. AC Power [W]	1100	1650	2200	2750	3000
Rated AC Current [A]	4.3	6.5	8.7	10.9	13
Max. AC Current [A]	4.8	7.2	9.7	12.8	14.5
Nominal AC Voltage/Range			220V,230V,240V/180V-280V		
Grid Frequency/Range			50,60Hz±5Hz		
Power Factor (cosφ)			>0.99 (Full load)		
Total Harmonic Distortion [THDi]			<3%		
Free-in Phase / Connection Phase			1/1		
Efficiency					
Max. Efficiency	97.1%	97.2%	97.2%	97.2%	97.2%
Euro Efficiency [At 360Vdc]	96.4%	96.7%	96.6%	96.7%	96.8%
MPPT Accuracy			>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-island protection monitoring			AFD		
Interface					
AC Connection			Plug-in connector		
DC Connection			MC4/H4		
LCD / LED Display			LCD (16x2 Characters, Backlight) / LED (3 Lights)		
Display Language			English		
Datalogger & Communication			RS232 (Standard) / Wi-Fi,GPRS (Optional)		
General Data					
Topology			Transformerless		
Consumption at Night [W]			<0.2		
Consumption at Standby [W]			6		
Operating Temperature Range			-25°C to +60°C (45°C to 60°C with derating)		
Cooling Method			Natural Convection		
Ambient Humidity			0% to 98% Non-condensing		
Altitude			Up to 2000m (without derating)		
Noise [dBA]		<15		<25	
Ingress Protection			IP65 (Indoor & Outdoor Installation)		
Mounting			Rear Panel		
Dimensions (W*H*D) [mm]		315*260*120		354*305*120	
Weight [kg]		5.8		8.5	
Standard Warranty [Year]			5 (Standard) / 10 / 15 / 20 / 25 (Optional)		
Certificates			IEC62109-1/2, IEC61000-6-2/3, IEC61683, IEC60068-2, IEC62116, IEC61717, PEA/MEA, NRS 097-2-1, UTE-C-15-712-1, VDE0126-1-1/A1, VDE-AR-N 4105, AS4777.2, AS4777.3, C-TICK, CQC NB/T 32004, G83-2, NBR 16149, NBR 16150, TF 3.2.1, C10/11		

Inverter

Inverter