CHINT POWER

CPS SCE1.5KTL
CPS SCE2KTL
CPS SCE3KTL-O
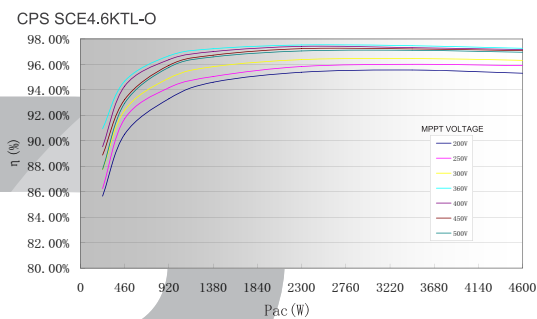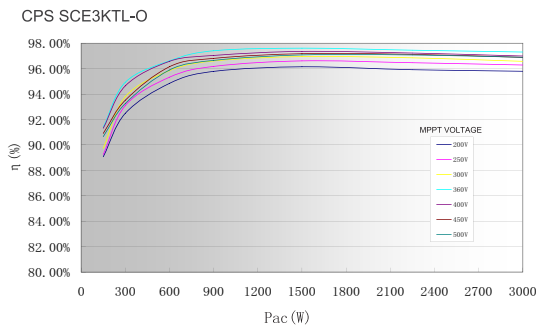CPS SCE4KTL-O
CPS SCE4.6KTL-O

NEW GENERATION

1.5-4.6kW Single Phase Grid-tied PV Inverters

Chint Power has been long dedicated to the research and development of PV inverters with a growing reputation from the domestic to the international markets. As a result of our continuous improvement efforts, Chint Power introduces the new generation of single-phase PV inverters: the SCE series.

SCE series PV inverters are suitable for various residential and commercial rooftop PV systems. With the features of concise design and high reliability of the former generation, SCE series PV inverters offer an improved performance on the conversion efficiency reaching up to 97.5%. The internal design offering now standard embedded DC switch and RS485 communication making of the SCE series a safe and flexible product for customers.

Efficiency Curve

CPS SCE3KTL-O

MPPT VOLTAGE
200V
250V
300V
360V
400V
450V
500V

η (%) vs Pac (W)

CPS SCE4.6KTL-O

MPPT VOLTAGE
200V
250V
300V
360V
400V
450V
500V

η (%) vs Pac (W)

■ **High Efficiency**
- Max. efficiency up to 97.5%, Euro efficiency up to 97.0%
- ≥99.9% MPPT efficiency
- Transformerless design

■ **High Reliability**
- Designed for reliability and derating guide lines
- Comprehensive protection functions
- Real-time monitoring
- Anti-islanding protection
- 5 years standard warranty

■ **Broad Adaptability**
- Wide MPPT range enables flexible stringing
- Multi-language interface menus
- DC switch embedded
- Easy operation
- 3rd Party Monitoring   Solar-Log

RoHS   CE   TÜV   GS

G83 G59   VDE-AR-N 4105
VDE0126-1-1/A1

Model Name	CPS SCE1.5KTL	CPS SCE2KTL	CPS SCE3KTL-O	CPS SCE4KTL-O	CPS SCE4.6KTL-O
DC Input					
Nominal DC Input Power	1.5kW	2kW	3kW	4kW	4.6kW
Max. DC Input Power	1.7kW	2.3kW	3.45kW	4.6kW	3.4kW/MPPT
Max. DC Input Voltage	550Vdc	550Vdc	600Vdc	600Vdc	600Vdc
Operating DC Input Voltage Range	100-550Vdc	100-550Vdc	100-500Vdc	100-500Vdc	100-500Vdc
Start-up DC Input Voltage	150Vdc				
Nominal DC Input Voltage	360Vdc				
MPPT Voltage Range	175-500Vdc	200-500Vdc	200-500Vdc	225-500Vdc	200-500Vdc
Number of MPP Trackers	1	1	1	1	2
Number of DC Inputs (strings)	1	1	2	2	1x2
Max. Input Current	9.1A	11A	17.5A	20A	17A/MPPT
Max. Input Current per String	9.1A	11A	17.5A	20A	17Ax2
DC Disconnection Type	Embedded switch				
PV Array Configuration	Floating				
AC Output					
Rated AC Output Power	1.5kW	2kW	3kW	4kW	4.6kW
Max. AC Output Power	1.65kW	2.2kW	3.3kW	4.4kW	5kW#
Rated Output Voltage	230Vac				
Output Voltage Range	184-264.5Vac*				
Grid Connection Type	1Φ				
Max AC Output Current	7.2A	9.6A	14.4A	19.2A	22.1A
Rated Output Frequency	50Hz				
Output Frequency Range	47.5-51.5Hz*				
Power Factor	>0.99 (±0.9 adjustable)				
Current THD	<3%				
System					
Topology	Transformerless				
Max. Efficiency	96.5%	96.8%	97.2%	97.5%	97.5%
Euro Efficiency	95.2%	95.8%	96.5%	97.0%	97.0%
Stand-by / Night Consumption	<7W / <0.1W				
DC/AC surge suppressor	Type II				
Environment					
Protection Degree	IP43	IP43	IP65	IP65	IP65
Cooling	Convection	Convection	Convection	Convection	Force air cooling
Operating Temperature Range	-20°C to +60°C				
Operating Humidity	0-95%, non condensing		0-100%, condensing		
Operating Altitude	2000m without derating				
Display and Communication					
Display	LCD+LED				
Communication	USB B port & RS485				
Mechanical Data					
Dimensions (WxHxD) (mm)	355x365x156	355x365x156	431x453x158	431x453x158	434x597x228
Weight (kg)	12.1	12.9	15	16.5	30.9
Safety					
Safety and EMC Standards	LVD: 2006/95/EC EMC: 2004/108/EC EN61000-6-2: 2005/EN61000-6-2: 2007+A1: 2011 EN62109-1: 2010/EN62109-2: 2011 (IEC62109-1, IEC62109-2)				
Grid Standards	VDE AR-N-4105/VDE 0126-1-1/A1; RD1699;CEI-021; G83/1/1; G59/2				

\# Max. AC Output Power is 4.6kW under VDE4104 regulation.

* The Output Voltage/Frequency Range value may change according to different grid codes.

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