

# CPS SCA50/60KTL-DO

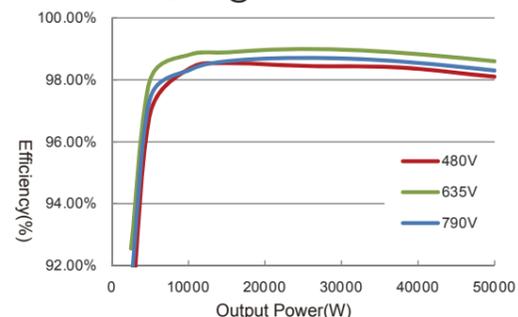
CPS SCA50/60KTL-DO grid-tied PV inverters are transformerless, three phase products. The maximum input voltage is 1000V which makes the configuration more flexible. Patented 3-level control algorithm and thermal design provide 99% maximum efficiency and 98.5% Euro efficiency. This type three phase string inverters are esigned with the DC switch and DC fuse integrated. And Integrated PV input string fault detection circuit and PV input arcing fault detection circuit to ensure the safety.



CPS SCA50KTL-DO  
CPS SCA60KTL-DO

## Efficiency Curve

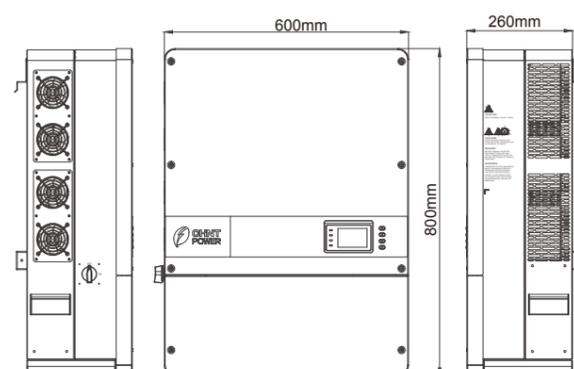
CPS SCA50KTL-DO @400Vac



## Broad Adaptability

- Advanced PID Solutions
- Low voltage ride through, and provide reactive power to support the grid
- IP65, outdoor application
- Active power derating and Reactive power adjustable
- BDEW compatible
- 1000V maximum input voltage enable flexible configuration
- Broad MPPT range enable flexible PV string configuration Suitable for multi-inverter parallel application

## Dimensions



## High Reliability

- Comprehensive protection functions
- Enhanced DSP system
- Integrated PV input string fault detection
- Integrated PV input arcing fault detection and interruption circuit
- Advanced thermal design, with variable speed fans
- Anti-Islanding protection
- Ground-fault detection and interruption circuit
- Integrated DC SPD
- 5 years standard warranty, optional extension up to 20 years

## High Reliability

- Maximum efficiency of 99%, Euro efficiency of 98.5%
- 3-level technology and enhanced control mechanism to achieve high efficiency over wide load range
- 3 MPP trackers to achieve higher system efficiency
- Transformerless design

Mode Name	CPS SCA50KTL-DO	CPS SCA60KTL-DO
<b>DC Input</b>		
Nominal DC Input Power	51kW	61kW
Max.DC Input Power/ each MTTP	67.5kW/22.5KW	81kW/27KW
Max.DC Input Voltage	1000Vdc	
Operating DC Input Voltage Range	300-950Vdc	
MPPT Voltage Range(Full Load)	540-850Vdc	
Start-up DC Input Voltage / Power	330V/300W	
Nominal DC Input Voltage	635Vdc	710V
Number of MPPT/Number of DC Input	3/4	3/4
Max. Input Current	103A	124A
DC Disconnection Type	Integrated DC Switch	
<b>AC Output</b>		
Rated AC Output Power	50kW	60kW
Max. AC Output Power	55kVA	66kVA
Rated AC Output Voltage	230/400Vac	277/480Vac
Output Voltage Range*	320-460Vac	422~528Vac
Grid Connection Type	3Φ/N(Option)/PE	
Max. AC Output Current	80A	
Rated Output Frequency	50Hz/60Hz	
Output Frequency Range*	47-53Hz/57-63Hz	
Power Factor	>0.99 (±0.8 adjustable)	
Current THD	<3%	
AC Disconnection Type	-	
<b>System</b>		
Topology	Transformerless	
Max. Efficiency	99.0%	
Euro Efficiency	98.5%	
Stand-by / Night Consumption	<20W/<1W	
<b>Environment</b>		
Protection Degree	IP65	
Cooling	Variable speed cooling fans	
Operating Temperature Range	-25°C - +60°C (derating from +45°C)	
Operating Humidity	0-100%, Non-condensing	
Operating Altitude	4000m 13123ft (derating from 3000m 9842ft)	
<b>Display and Communication</b>		
Display	LCD+LED	
Communication	Standard: RS485 / Option: 4G Ethernet	
<b>Mechanical Data</b>		
Dimensions (WxHxD) (mm)	600x800x230	
Weight (kg)	60Kg	
<b>Safety</b>		
Safety and EMC Standard	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	
Grid Standard	VDE AR-N-4105/VDE 0126-1-1/A1	

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