

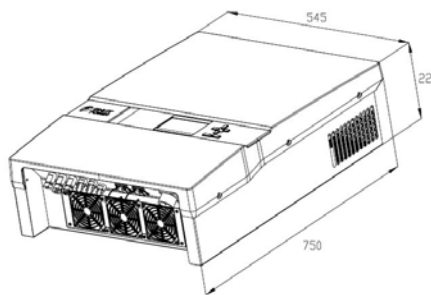
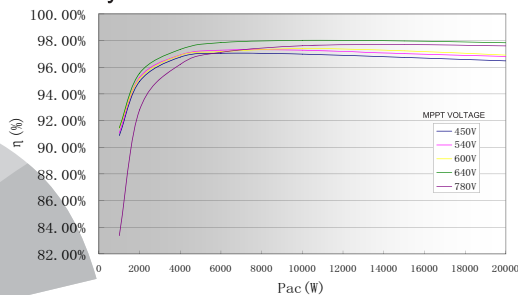
# 20kW Grid-Tie PV Inverter



CPS SC20KTL-O grid-tie PV inverter can be flexibly utilized in different types of commercial rooftops and utility applications. 3-level technology and parallel switched MOSFET with IGBT and bypass strategy adopted minimize power loss to achieve overall load high efficiency.

CPS SC20KTL-O shapes in small size, light weight and high power density. Multi flexible mounting modes make installation and maintenance easy and quick. IP65 protection degree allows broad outdoor applications to save indoor installation space and cables. Enhanced DSP control, comprehensive protection functions and advanced thermal design enable the whole system with high reliability.

Efficiency Curve



Dimension (mm)

## High Efficiency

- Max. efficiency of 98%
- $\geq 99.9\%$  MPPT efficiency
- 3-level technology and enhanced control mechanism to achieve overall load efficiency

## High Reliability

- Design for Reliability and derating guild lines
- Comprehensive protection functions
- Enhanced DSP system
- Advanced thermal design, fan speed control
- Island protection
- Ground-fault Circuit & Interrupters Input insulation resistance detection
- Double MCU realize multiple protection

## Broad Adaptability

- IP65 protection degree, outdoor application
- Multi mounting modes, easy and quick installation
- High altitude application
- Reactive power adjusting, active power derating (Optional)



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**Technical Data**

Catalogue No.	CPS SC20KTL-O	CPS SC20KTL-DO
<b>DC Input</b>		
Max. DC Voltage*	850Vdc	
MPPT Voltage Range	430~800Vdc	
Max. DC Power	22kWp	2×11kWp
Max. Input Current	42A	2×21A
Max. Number of Strings	5	4
MPP Tracker	1	2
<b>AC Output</b>		
Output Power	20kW	
Nominal Output Voltage	400Vac, 3 phase	
Grid Voltage	320~460Vac	
Nominal Grid Frequency	50Hz	
Current THD	<2%	
Power Factor	~1	
<b>System</b>		
Max. Efficiency	98%	
Euro Efficiency	97.5%	
Protection Degree	IP65	
Stand-by consumption	<20W	
Operating Temperature Range	-20°C ~ +65°C	
Cooling	Forced cooling / RPM regulated fan	
Humidity	0~95%, non-condensing	
Altitude	4000m	
DC Switch Embedded	NO	YES
<b>Display and Communication</b>		
Display	LCD	
Communication	RS485	
<b>Mechanical Data</b>		
Height (mm)	750	
Width (mm)	545	
Depth (mm)	220	
Weight(kg)	50	

\*Note: Stresses beyond those listed under “Max. DC Voltage” may cause permanent damage to the device.

**Installation**

- Wall mounted
- Bracket mounted
- Parallel bracket mounted

Please follow local regulatory electrical codes for installation. If in doubt, consult appropriate licensed contractor.

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