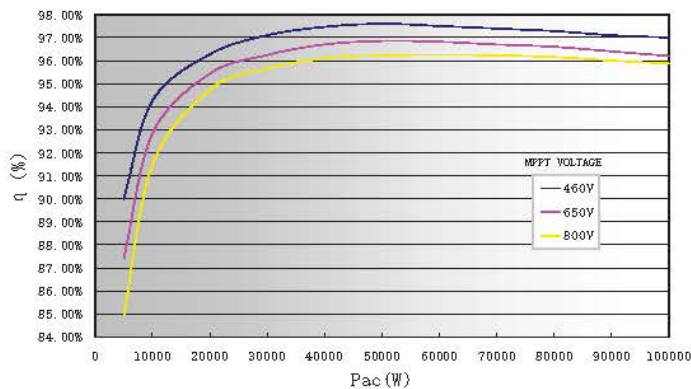


# 100kW Grid-Tie PV Inverter

CPS SC100KT Grid-tie PV inverter can be flexibly utilized in different types of commercial rooftops and utility applications, with output transformer isolation. Low loss magnetic materials, advanced MPPT control and variable structure SV PWM control adopted minimize the power loss to achieve full load high efficiency. Enhanced DSP control, comprehensive protection functions and advanced thermal design enable the whole system with high reliability.



## Efficiency Curve



### High Efficiency

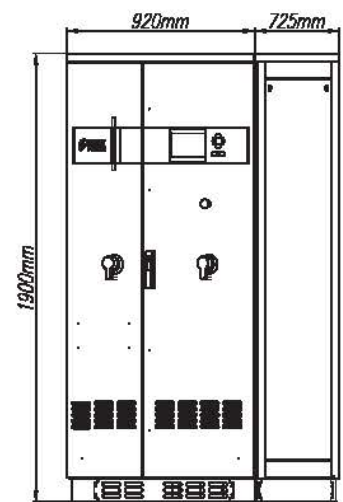
- Max. efficiency of 97.6%
- $\geq 99.9\%$  MPPT efficiency
- Sliding mode variable structure SV PWM control to achieve full load efficiency

### Broad Adaptability

- Multi-language display
- High altitude application
- Reactive power adjusting, active power derating (Optional)

### High Reliability

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



Dimension (mm)



RD1663

DK5940

**Technical Data**

**CPS SC100KT**

<b>DC Input</b>	
Max. DC Voltage*	880Vdc
MPPT Voltage Range	430~820Vdc
Max. DC Power	110kWp
Max. Input Current	250A
Max. Number of Strings	4
MPP Tracker	1
<b>AC Output</b>	
Output Power	100kW
Nominal Output Voltage	400Vac, 3 phase
Grid Voltage	320~460Vac
Nominal Grid Frequency	50Hz
Current THD	<3%
Power Factor	~1
<b>System</b>	
Max. Efficiency	97.6% <sup>※</sup>
Euro Efficiency	97.0%
Protection Degree	IP20
Stand-by consumption	<50W
Operating Temperature Range	-20°C ~ +60°C
Cooling	Forced cooling / RPM regulated fan
Humidity	0~95%, non-condensing
Altitude	4000m
<b>Display and Communication</b>	
Display	LCD
Communication	RS485
<b>Mechanical Data</b>	
WxDxH(mm)	920×725×1900
Weight(kg)	880

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

※Note: Max efficiency is measured at U<sub>DC</sub>=460V with external aux power.

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