

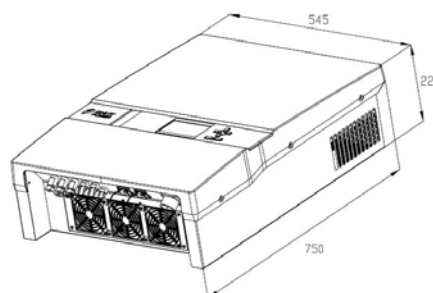
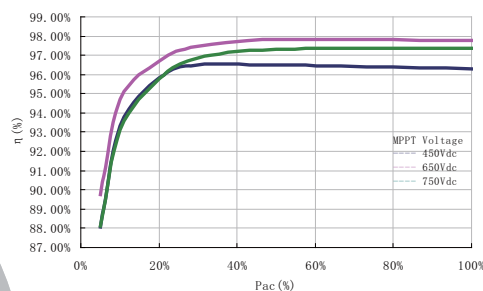


20KW Grid-Tie PV Inverter

CPS SC20KTL-O grid-tied 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 97.8%
- $\geq 99.9\%$ MPPT efficiency
- 3-level technology and enhanced control mechanism to achieve overall load efficiency

High Reliability

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

Broad Adaptability

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



(In application process)

Technical Data

CPS SC20KTL-O

DC INPUT	
Absolute Max. DC Voltage*	880V dc
MPP Voltage Range	430~800V dc
Max. DC Power	22kWp
Max. Input Current	42A
Max. Number of Strings	5
AC Output	
Output Power	20kW
Nominal Output Voltage	400V ac
Grid Voltage	310~450V ac
Nominal Grid Frequency	50Hz/60Hz
Grid Frequency Range	47~51.5Hz/57~61.5Hz
THD	<3%
Power Factor	>0.99
System	
Max. Efficiency	97.8%
Euro Efficiency	97.5%
Protection Degree	IP65
stand by consumption	<20W
Operating Temp.	-20°C ~ +50°C
Cooling Method	Controlled forced-air cooling
Relative Humidity	0~95%, non-densing
Altitude	2000m
Display and communication	
Display	LCD
Communication	RS485 & RS232
Mechanical Data	
WxDxH(mm)	545x220x750
Weight(kg)	46kg

*Note: Stresses beyond those listed under “Absolute 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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