80

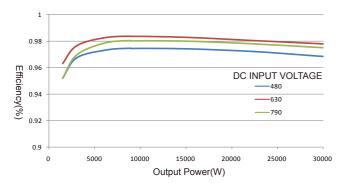
Inverter-India

30/36kW Three Phase Grid-tied PV Inverters

CPS SCA30/36KTL-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 98.6% maximum efficiency and 98.1% Euro efficiency. This type three phase string inverters are designed with the DC switch integrated. And provide a standard for fuse which designed in the wiring box. Integrated PV input string fault detection circuit and PV input arcing fault detection circuit to ensure the safety.

Efficiency Curve

CPS SCA30KTL-DO @400Vac



High Efficiency

- Maximum efficiency of 98.6%, Euro efficiency of 98.1%
- 3-level technology and enhanced control mechanism to achieve high efficiency over wide load range
- ■2 MPP trackers to achieve higher system efficiency
- Transformerless design

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
- Optional DC SPD
- Electrolyte-free design" for improved long-term reliability
 5 years standard warranty, optional extension up to 20 years

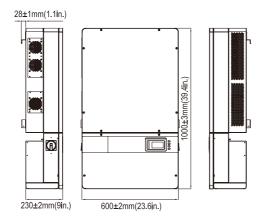


CPS SCA30KTL-DO CPS SCA36KTL-DO

Broad Adaptability

- Integrated String Current and Arc Fault Detecting
- Advanced PID Solutions
- Separate wiring box design
- 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



Model Name CPS SCA30KTL-DO CPS SCA36KTL-DO-480 **DC** Input Nominal DC Input Power 37kW 31kW Max. DC Input Power for each MPPT 16kW 19kW 1000Vdc 1000Vdc Max. DC Input Voltage 300-900Vdc Operating DC Input Voltage Range 330V/300W Start-up DC Input Voltage / Power 630Vdc 710Vdc Nominal DC Input Voltage 2 Number of MPP Trackers MPPT Voltage Range 480-800Vdc 540-800Vdc Max. Input Current 2 x 32A 2 x 34A Number of DC Inputs 4 strings x 2 DC Disconnection Type Integrated DC switch **AC Output** 36kW Rated AC Output Power 30kW 30kW 36kW Max. AC Output Power Rated Output Voltage 230/400Vac 277/480Vac 320-460Vac 422-528Vac Output Voltage Range* Grid Connection Type 3Ф/РЕ 3Ф/РЕ Max AC Output Current 43.3A 43.3A Rated Output Frequency 50Hz/60Hz Output Frequency Range* 47-53Hz/57-63Hz >0.99 (±0.8 adjustable) Power Factor Current THD <3% 149A Peak/211us AC Inrush Current L-N/PE:100A Peak@320ms;56.6A RMS@20ms; L1/L2/L3 158A Peak@992ms; Maximum Output Fault Current 70.4A RMS@20ms System Topology Transformerless Max. Efficiency 98.4% 98.6% Euro Efficiency 98.0% 98.1% Stand-by / Night Consumption <20W/<2W Protective Class Overvoltage Category PV(II), Mains(III) **Environment** IP65 Protection Degree Variable speed cooling fans Cooling Operating Temperature Range - 25°C to +60°C (derating from +45°C) 0-100%, non-condensing Operating Humidity 4000m (derating from 2000m) Operating Altitude **Display and Communication** LCD+LED Display Option: Ethernet, Zigbee Standard: RS485, USB, Mulit-function Relay Communication **Mechanical Data** Dimensions (WxHxD) (mm) 600x1000x230 Weight (kg) 50 (Inverter)+5 (Wiring Box) Safety LVD: 2006/95/EC EMC: 2004/108/EC. IEC/EN 62109-1: 2010. Safety and EMC Standard IEC/EN 62109-2: 2011; IEC/EN61000-6-2: 2005, IEC/EN61000-6-3: 2007 BDEW: VDE AR-N-4105/VDE 0126-1-1/A1: G83/1/1: G59/2: C10/11: NB/T32004: Grid Standard GB/T19964; NRS097;IEC61683;IEC60068;IEC62116;IEC61727

- * The "Output Voltage Range" and "Output Frequency Range" may differ according to specific grid codes.
- * MAX recommended PV array power ≤1.3P(P for Rated AC output power), PV array power range depend on the type of installation and geographical location.

07