Scalable PV

CL36 String Inverter

Together with Schneider Electric’s broad range of low voltage products, CL36 is the ideal solution for commercial and industrial buildings, car ports, PV Diesel Hybrid and AC-coupled systems.

Solution at a glance

Scalable and flexible PV architecture together with Schneider Electric’s broad range of low voltage products make CL36 the ideal choice for commercial and industrial buildings.

CL36 is compatible with Schneider Electric’s Gateway and Insight for easier remote asset management and troubleshooting.

Backed by Schneider Electric’s global service infrastructure and its expertise in energy management, the CL36 is the inverter you can rely on.

Available for IEC markets.

Higher return on investment

• 98.5% peak efficiency
• String monitoring included
• Includes 3 MPPT inputs

Ease of installation and service

• Less than 50 kg for easy installation
• Fast commissioning with Conext™ Gateway
• Remote monitoring via Conext™ Insight 2

Intelligent design

• Support DC/AC ratio up to 1.3
• Integrated DC fuses and DC/AC surge protection

Solution to support grid connectivity

• AC coupling compatible with Schneider Electric storage products
• Offered with complementary LV distribution products from Schneider Electric
### Technical Specifications

**CL36 String Inverter**

**Device short name:** Conext™ CL36 (IEC Standard)

### DC Side

- **Max. PV input voltage:** 1100 V
- **Start up voltage:** 250 V
- **Nominal input voltage:** 585 V
- **MPPT voltage range:** 200 - 1000 V
- **MPPT voltage range for nominal power:** 500 - 850 V
- **No. of MPPTs:** 3
- **Max. number of PV strings per MPPT:** 3 / 3 / 2
- **Max. PV input current:** 88 (33A/33A/22A)
- **Max. current for input connector:** 12 A
- **Max. DC short circuit current:** 96A (36A/36A/24A)
- **DC connectors / DC max. current per input:** MC4 / 12 A (mating part included)
- **DC fuses (included):** 8 pairs (+), string monitoring included
- **DC switch / DC SPD:** Yes / Type II surge arrester
- **Max. Inverter backfeed current to the array:** 0 A

### AC Side

- **Nominal AC output power:** 36 kW
- **Max. AC output power (PF=1):** 36 kW
- **Max. AC output apparent power:** 36 kVA
- **Max. AC output current:** 53.5 A
- **Nominal AC voltage:** 400 Vac (3ph/ N/ PE  or  3ph/PE)
- **AC voltage range:** 310 - 480 V
- **Nominal grid frequency:** 50 Hz / 60 Hz
- **Grid frequency range:** 45 - 55 Hz / 55 - 65 Hz
- **THD:** < 3% (Nominal power)
- **Power Factor:** > 0.99 at nominal power, (adj. 0.8 leading -0.8 lagging)
- **AC connection:** 4 wire grounded WYE or ungrounded DELTA

### Protection

- **Protection:** Anti-islanding protection, DC reverse connection protection, AC short circuit protection, Leakage current protection, AC Type II

### System data

- **Max. efficiency:** 98.5%
- **Euro. efficiency:** 98.3%
- **Isolation method:** Transformerless
- **Ingress protection rating:** IP65
- **Night power consumption:** < 2 W
- **Operating ambient temperature range:** -25 °C - 60 °C (> 45 °C derating)
- **Allowable relative humidity range:** 0 - 100% (condensing)
- **Cooling method:** Smart forced air cooling
- **Max. operating altitude:** 4000 m (> 3000 m derating)
- **User interface:** Graphic LCD and Easy Config tool
- **Communication:** RS485
- **DC connection type:** MC4 (Max. 6 sq mm)
- **AC connection type:** Screw Clamp terminal (Max. 50 sq mm Cu type cable)

### Mechanical Specifications

- **Part number:** PVSCL36E
- **Dimensions (W x H x D):** 525 mm x 740 mm x 240 mm
- **Mounting method:** Vertical mounting through Wall bracket
- **Weight:** 48 kg
- **Audible noise:** 65dBA +/-3 dBA

### Regulatory approval

- **Electrical safety:** CE marked for the Low Voltage Directive EN / IEC 62109-1 / EN / IEC 62109-2
- **Grid interconnection:** VDE0126-1-1, VDE-AR-N 4105, CEA, IEC 62116, IEC 61727, IEC60068, IEC61683
- **Grid support:** LVRT, HVRT, Active and Reactive Power Control and Power Ramp Control.
- **EMC:** CE marked for the EMC directive
- **Emissions:** EN 61000-6-3 (residential)
- **Immunity:** EN 61000-6-2 (industrial)
- **Over Voltage Category:** III (Mains), II (PV)
- **Environmental:** RoHS, REACH, WEEE and 4K4H