

# 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 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 and remote monitoring via Insight

#### 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	CL36 (IEC Standard)
<b>DC Side</b>	
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
<b>AC Side</b>	
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)
DC current injection	< 0.5 % I <sub>n</sub>
Power Factor	> 0.99 at nominal power, (adj. 0.8 leading -0.8 lagging)
AC connection	4 wire grounded WYE or ungrounded DELTA
<b>Protection</b>	
Protection	Anti-islanding protection, DC reverse connection protection, AC short circuit protection, Leakage current protection, AC Type II
<b>System data</b>	
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)
<b>Mechanical Specifications</b>	
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
<b>Regulatory approval</b>	
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	LVVRT, HVVRT, 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