Scalable PV
Conext™ CL36 String Inverter

Together with Schneider Electric's broad range of low voltage products, Conext™ 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 Conext™ CL36 the ideal choice for commercial and industrial buildings.

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

Available for IEC markets in Q1 2019.
Compatibility with Schneider Electric's Conext™ Gateway and Conext™ will be coming soon.

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

Conext™ 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)
DC current injection	$< 0.5\ \%\ I_n$
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

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