

Conext CL three-phase grid-tie inverters

Ideal solution for commercial buildings, carports and decentralised power plants

The Conext™ CL Series is a new line of three phase string inverters designed for high efficiency, maximal flexibility and easy installation and service. Electrolyte-free design with Schneider Electric's rigorous reliability test procedures improve the long term reliability. Three configuration options of integrated wiring box allow for easy, flexible and low cost installations. Decentralised architecture, full grid support features and system capability together with Schneider Electric's broad range of medium voltage products make Conext CL the ideal choice for medium and large PV plants. Backed by Schneider Electric's global service infrastructure, leading manufacturing facilities and its expertise in energy management, the Conext CL Series is the inverter you should trust for quality and reliability.

Why choose Conext CL?



True bankability

- Warranty from a trusted partner with over 177 years of experience
- World leader in industrial power drives, UPS and electrical distribution
- Strong service infrastructure worldwide to support your global needs



Higher return on investment

- High conversion efficiency: 98.4% peak efficiency, 98.0% Euro efficiency
- Great value for money: integrated wiring box saves customer the cost of external DC combiner box*
- Overpaneling capability to allow for maximizing energy harvest



Designed for reliability

- Robust design through rigorous Multiple Environmental Over Stress Testing (MEOST), Highly Accelerated Test (HALT) and Temperature Humidity Bias (THB)
- Electrolyte-free design to guard against dried cap issue and help to improve long term reliability
- Designed and qualified for applications in tropical environments through salt fog testing and use of conformal coating



Flexible

- Three options of wiring box (base, essential and optimum) to fit different customer needs
- Full grid management features to allow for medium and large PV plants applications
- Easy to connect to third party monitoring systems



Easy to service

- Touch-safe fuse holder available for easy and protective fuse replacement
- Easily replaceable fan
- Both DC and AC Surge Protection Devices (SPD) with included monitoring to help to protect inverter from lightning (optimum model)



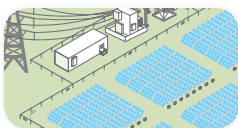
Easy to install

- Detachable inverter to allow for easy installation and upgrades
- Integrated handle and light weight
- Auto country/multilingual configurations



Products shown:
Schneider Electric Conext CL with wiring box

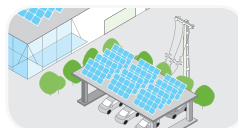
Product applications



PV power plants decentralised



Commercial grid-tie centralised



Carports

*An external fuse protection shall be installed if base model from available product variants is chosen.

Device short name	CL20000 E	CL25000 E
Electrical specifications		
Input (DC)		
Full power MPPT voltage range	350 - 800 V	430 - 800 V
Operating voltage range at nominal AC voltage	250 - 1000 V	250 - 1000
Max. input voltage, open circuit	1000 V	1000 V
Number of MPPT	2	2
Absolute max. PV array short circuit current per MPPT	50 A	50 A
Nominal DC input power (cosφ=1)	21.5 kW	26.5 kW
Max. DC input power per MPPT	12.9 kW	15.9 kW
DC connection (in the wiring box)	Base model: tool free connector (not screw type) Essential model and optimum model: fuse holder	Base model: tool free connector (not screw type) Essential model and optimum model: fuse holder
Output (AC)		
Nominal output power	20.0 kVA	25.0 kVA
Max. AC output power	22.0 kVA	27.5 kVA
Nominal output voltage	230 / 400 V	230 / 400 V
AC voltage range	184 - 276 V / 319-478 V	184 - 276 V / 319-478 V
Frequency	50 / 60 Hz	50 / 60 Hz
Frequency range (adjustable)	50 +/- 3 Hz, 60 +/- 3Hz	50 +/- 3 Hz, 60 +/- 3Hz
Max. output current	32 A	40 A
Total harmonic distortion	< 3 %	< 3 %
Power factor (adjustable)	0.8 lead to 0.8 lag	0.8 lead to 0.8 lag
AC connection (in in the wiring box)	Tool free connector (not screw type)	Tool free connector (not screw type)
Efficiency		
Peak	98.4 %	98.4 %
European	98.0 %	98.0 %
General specifications		
Power consumption at night time	< 2.5 W	< 2.5 W
Enclosure rating	IP65 (electronics) / IP54 (rear portion)	IP65 (electronics) / IP54 (rear portion)
Cooling	Fan cooled	Fan cooled
Inverter weight	45 kg (99.2 lb)	45 kg (99.2 lb)
Wiring box weight	16 kg (35.3 lb)	16 kg (35.3 lb)
Inverter dimensions (H x W x D)	71.5 x 67.8 x 26.4 cm (28.1 x 26.7 x 10.4 in)	71.5 x 67.8 x 26.4 cm (28.1 x 26.7 x 10.4 in)
Wiring box dimensions (H x W x D)	36.0 x 67.8 x 26.4 cm (14.2 x 26.7 x 10.4 in)	36.0 x 67.8 x 26.4 cm (14.2 x 26.7 x 10.4 in)
Ambient air temperature for operation	-25 to 60°C (-13°F to 140°F)	-25 to 60°C (-13°F to 140°F)
Operating altitude	2000 m (6560 ft)	2000 m (6560 ft)
Relative humidity %	4...100 condensing	4...100 condensing
Noise emission (at 1 m distance)	< 55 dBA	< 55 dBA
Features and options		
Embedded data logger	Yes	
User interface	Graphic display, buttons	
Communication interface	RS485 (MODBUS RTU), Ethernet / MODBUS TCP (Ethernet), USB and dry contact	
Monitoring	Easy to connect to third party solution, SPD monitoring available with device	
Remote power off	Yes	
Regulatory approval		
Electrical safety	CE marked for the Low Voltage Directive EN / IEC 62109-1 / EN / IEC 62109-2, AS3100	
Grid interconnection (pending)	BDEW, VDE0126-1-1, VDE-AR-N 4105, CEI 0-21, CEI 0-16, G59/2, UTE C15-712-1, AS4777, IEC 62116, IEC 61727, PEA & MEA for Thailand*	
Environmental	RoHS, REACH and 4K4H	
EMC	CE marked for the EMC directive 2004-108-EC Emissions: EN 61000-6-3 (residential) Immunity: EN 61000-6-2 (industrial)	
Available product variants		
Base: AC connector and DC connector	PVSCL20E100	PVSCL25E100
Essential: Touch-safe fuse holder	PVSCL20E200	PVSCL25E200
DC switch and AC connector		
Optimum: Essential+ DC SPD and AC SPD	PVSCL20E300	PVSCL25E300

Specifications are subject to change without notice. * Country certification is subject to modification.