

Conext CL-NA 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, maximum flexibility and easy installation and service. Electrolyte-free design with Schneider Electric's rigorous reliability test procedures improve the long term reliability. Five 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 178 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% CEC efficiency
- Great value for money: integrated wiring box saves 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 Life Test (HALT) and Temperature Humidity and Bias testing (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

- Five options of wiring box (base, essential, essential+, optimum and optimum+) to fit different applications
- 10° - 90° installation angle to allow for flexible mounting
- CL 18000NA supporting both 600 V and 1000 V applications



Easy to service

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



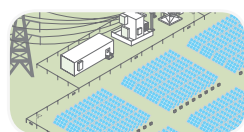
Easy to install

- Detachable inverter to allow for easy installation and upgrades
- Light weight with integrated handle for 2 persons installation
- Both bottom and side cable entry to allow for flexible installation

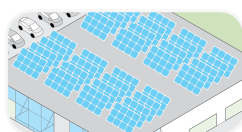


Products shown:
Schneider Electric Conext CL with wiring box

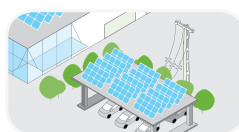
Product applications



PV power plants decentralised



Commercial grid-tie decentralised



Carports

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

Device short name	CL18000 NA	CL25000 NA
Electrical specifications		
Input (DC)		
Full power MPPT voltage range	300 - 800 V	500 - 800 V
Operating voltage range	250 - 1000 V	250 - 1000 V
Max. input voltage, open circuit	1000 V	1000 V
Number of MPPT / strings per MPPT	2 / 4	2 / 4
Max. DC input current per MPPT	32.0 A	26.5 A
Max. array short circuit current per MPPT	36.0 A	36.0 A
Nominal DC input power	19.0 kW	26.5 kW
Max. DC input power per MPPT*	11.4 kW	15.9 kW
DC connection (in the wiring box)	Bottom and side conduit/cable entry Base model: spring cage clamp connector Essential model and Optimum model: fuse holder	Bottom and side conduit/cable entry Base model: spring cage clamp connector Essential model and Optimum model: fuse holder
Output (AC)		
Rated output power (PF=1)	18.0 kW	25.0 kW
Max. apparent power	18.0 kVA	25.0 kVA
Nominal output voltage	277 / 480 V	277 / 480 V
AC voltage range	244 - 305 V / 422 - 528 V	244 - 305 V / 422-528 V
Frequency	60 Hz	60 Hz
Frequency range (adjustable)	60 +/- 3 Hz	60 +/- 3 Hz
Max. output current	25 A	33 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 the wiring box)	Bottom and side conduit/cable entry, spring cage clamp	Bottom and side conduit/cable entry, spring cage clamp connector
Efficiency		
Peak	98.0 %	98.4 %
CEC	97.5 %	98.0 %
General specifications		
Power consumption at night time	< 3.0 W	< 3.0 W
Enclosure rating	TYPE 4 (electronics) / TYPE 3R (rear portion)	TYPE 4 (electronics) / TYPE 3R (rear portion)
Cooling	Fan cooled	Fan cooled
Inverter weight	54 kg (119 lb)	54 kg (119 lb)
Wiring box weight	15 kg (33 lb)	15 kg (33 lb)
Inverter dimensions (H x W x D)	71.4 x 67.4 x 26.8 cm (28.1 x 26.5 x 10.5 in)	71.4 x 67.4 x 26.8 cm (28.1 x 26.5 x 10.5 in)
Wiring box dimensions (H x W x D)	36.1 x 67.4 x 26.8 cm (14.2 x 26.5 x 10.5 in)	36.1 x 67.4 x 26.8 cm (14.2 x 26.5 x 10.5 in)
Ambient air temperature for operation	-25 to 60°C (-13 to 140°F)	-25 to 60°C (-13 to 140°F)
Max. operating altitude without derating	2000 m (6560 ft)	2000 m (6560 ft)
Relative humidity %	4...100 condensing	4...100 condensing
Noise emission (at 1 m distance)	< 58 dBA	< 58 dBA
Features and options		
Embedded data logger	Yes	
User interface	Graphic display, key pad	
Communication interface	RS485 (MODBUS RTU), Ethernet / MODBUS TCP (Ethernet), USB, dry contact and key pad	
Monitoring	SunSpec Alliance profile, Surge Protection Device (SPD) and Arc Fault Detection (AFD) monitoring available with device	
Remote power off	Yes	
Regulatory approval		
Certifications (pending)	UL1741, IEEE 1547.1, CSA C22.2 107.1-01, FCC Part 15**	
Available product variants		
Base: AC connector and DC connector	PVSCL18NA100	PVSCL25NA100
Essential: Touch-safe fuse holder, DC switch and AC connector	PVSCL18NA200	PVSCL25NA200
Essential*: Essential + AFD	PVSCL18NA201	PVSCL25NA201
Optimum: Essential + DC SPD and AC SPD	PVSCL18NA300	PVSCL25NA300
Optimum*: Optimum + AFD	PVSCL18NA301	PVSCL25NA301

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