

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. Integrated wiring box with multiple options allow for easy, flexible and low cost installations. Remote asset management and trouble shooting are easier than ever before together with Schneider Electric Conext SmartBox and Conext Insight portal. Decentralized architecture and system capability together with Schneider Electric's broad range of medium voltage products make Conext CL the ideal choice for commercial buildings and decentralized power 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-NA?



Higher return on investment

- High conversion efficiency: 98.4% peak efficiency, 98.0% CEC efficiency
- Great value for money: integrated wiring box saves customer the cost of external DC combiner box*
- Built-in CloudConnect feature to allow direct connection to Conext Insight portal for easy and free remote monitoring **



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
- Both wall, pole and minimum 10° tilt installation
- 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
- Self diagnosis and analysis through Cloud connected Conext SmartBox and Conext Insight



Easy to install

- Detachable inverter and wiring box to reduce weight and ease installation
- Pre-wired wiring box to save connection time
- Both bottom and side cable entry to allow for flexible installation

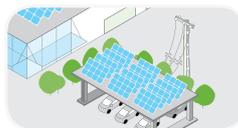
Product applications



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. ** Up to eight inverters in one cluster



Products shown:
Schneider Electric Conext CL 18/25 with wiring box

| 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. 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 | 25.0 A | 33.0 A |
| Nominal continuous output current | 21.7 A | 30.1 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 4 (electronics) |
| 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) | < 55 dBA | < 55 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, easy to connect to third party monitoring system and Schneider Electric monitoring system, inverter built-in web server supporting local webpage monitoring | |
| Remote power off | Yes | |
| Regulatory approval | | |
| Certifications | 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. *Base model: 2/1 **Under unbalanced condition. ***Country certification is subject to modification.