

Maximize your ROI

Conext™ CL125 String Inverter

The ideal string inverter solution for both decentralized and decentralized 1500Vdc power plant designs



Solution at a glance

The Conext™ CL125 is the latest three phase string inverter designed for utility scale power plant systems built with 1500V photovoltaic (PV) modules.

125kW output power, industry leading conversion efficiency, fast commissioning, and easy installation and service, deliver maximum ROI for your PV plants. Designed to Schneider Electric's rigorous reliability and quality standards, the CL125 offers optimized CAPEX & OPEX for the lifetime of your project.

Backed by Schneider Electric's broad range of medium voltage products and system solutions, the Conext CL125 is the most bankable choice for small, medium and large PV power plants.

Higher energy harvest

- Industry leading peak efficiency at 98.8%
- 125kW continuous power without derating till 50°C*
- 1.4x overpaneling capability maximizes energy harvest

Designed for reliability

- Robust design through Schneider Electric's rigorous reliability testing
- Electrolyte-free design at DC link guards against dried cap issue and improves long term reliability

Ease of installation and service

- Smart device app and Bluetooth connection to accelerate commissioning work
- Handy lifting mechanism to ease installation and service work

Solution to support grid connectivity

- Broad range of Schneider Electric's products that provide you with a total solution
- Inverter supports both decentralized and modular central designs for 1500Vdc power plants

* Under nominal DC and AC conditions

Technical specifications

Industry leading efficiency to maximize your ROI

	CL125E (IEC Standard)	CL125A (North American Standard)
DC Side		
DC max. input voltage	1500V	1500V
DC full power MPPT voltage range (PF=1)	860 - 1250 V	860 - 1250 V
DC operating voltage range at nominal AC voltage	860 - 1450 V	860 - 1450 V
DC start voltage at nominal AC voltage	920 V	920 V
DC max. array short circuit current	240 A	240 A
DC max. PV operating current	148 A	148 A
Number of MPPT	1	1
DC input terminals	Screw terminals (Max. 185 sq mm / 350kcmil , Cu or Al)	Screw terminals (185 sq mm, Cu or Al)
DC switch / DC SPD	Included / Type II surge arrester	Included / Type II surge arrester
AC Side		
AC max. active power ¹	125 kW	125 kW
AC max. continuous apparent power (at nominal AC voltage)	125 kVA	125 kVA
AC nominal output voltage / AC operating voltage range	600V / 480 - 690 V	600V / 480 - 690 V
AC nominal frequency / Frequency range	50 Hz and 60 Hz / 45-55 Hz and 55-65 Hz	60 Hz / 55 – 65 Hz
AC max. continuous output current	120 A	120 A
Power factor range	0.8 lead to 0.8 lag adjustable	0.8 lead to 0.8 lag adjustable
Current THD at max. power	< 3%	<3%
AC terminal	Screw terminals (Max. 185 sq mm / 350kcmil, Cu or Al)	Screw terminals (185 sq mm / 350kcmil, Cu or Al)
AC disconnect	Included	Included
AC connection	3 phase + PE	3 phase + PE
General Specifications		
Peak efficiency / Euro or CEC efficiency	98.8% / 98.7%	98.8% / 98.5%
Power consumption at nighttime	< 8 W	< 8 W
Enclosure type protection class	IP 65	Type 4X
Weight	75 kg.	165 lb.
Inverter dimensions (H x W x D)	67.1 X 89.2 X 29.5 cm	26.4 X 35.1 X 11.6 in
Ambient air temperature for operation	-25°C to 60°C ²	-13°F to 140°F ²
Max. operating altitude	4000 m, derating > 3000 m	13123 ft, derating > 9842 ft
Relative humidity %	4...100% condensing	4...100% condensing
User interface and communications		
User interface	LED Indicators, Blue tooth + APP	LED Indicators, Blue tooth + APP
Communication interface	RS485-Modbus, Communication protocol - SunSpec compatible & certified	
Regulatory approval (pending)		
Safety, EMC, Efficiency and Environmental standard ³	IEC/EN 62109-1, IEC/EN 62109-2, EN 61000-6-2, EN 61000-6-3, IEC 61683, EN 50530, IEC 60068-2-1,2,14,30, EN 60529	UL 1741, UL 1741 SA, CSA C22.2 107.1, CEC efficiency standard, UL1699B, FCC Class A
Grid Code Certifications ³	IEC 61727, IEC 62116, BDEW:2016, other grid codes to be added	IEEE1547, IEEE1547.1, IEEE1547a. California Rule 21
Environmental	RoHS, REACH	RoHS
Warranty	5 years standard warranty, can be extended to up to 10 years	10 years standard warranty
SKU Reference	PVSCL125E	PVSCL125A

¹ Maximum active power output at rated AC output voltage, unity power factor, full DC power input and within full power ambient temperature range. Please refer to the derating curve in Owners Guide.

² Refer to Owners Guide for more details.

³ Certification is subject to modification.