

Life Is On

Schneider  
Electric

# Conext™ CL-60 String Inverter

The ideal solution for decentralized  
power plants and commercial rooftops



[solar.schneider-electric.com](http://solar.schneider-electric.com)

# Why the Conext™ CL-60 inverter? Lower CAPEX, lower OPEX and higher revenue potential

## Lower startup costs (CAPEX)

- Easy to install, configure and commission
- Small housing, flexible configuration options

## Lower operating costs (OPEX)

- Optimized system design for lower operating cost-per-watt
- Weatherproof enclosure
- High reliability and easy servicing

## Higher revenue potential

- 98.7% maximum efficiency
- 66/63.4 kW continuous active power reduces total inverters per MW

## Global support

- Backed by a bankable company with 180 years of history
- A global support team, with personnel and parts in every major region

- **Tough, durable design** tested with Multiple Environmental Over Stress Testing (MEOST), Highly Accelerated Life Test (HALT) and Temperature, Humidity and Bias testing (THB)
- **Vertical or horizontal mounting** to tuck underneath solar panels and allow for a larger PV array
- Schneider Electric's broad range of **LV and MV products** provide complete Balance of System (BoS) for commercial, industrial and utility scale applications



Bonnat, France

# Conext™ CL-60 String Inverter

High efficiency to maximize your ROI

## Technical Specifications

Device short name	CL-60 E (IEC Standard)	CL-60 A (North America Standard)
<b>DC Side</b>		
DC max. input voltage	1000V	1000V
DC full power MPPT voltage range (PF=1)	570 - 850 V	550 - 850 V
DC operating voltage range at nominal AC voltage	570 - 950 V	550 - 950 V
DC start voltage at nominal AC voltage	620 V	620 V
DC max. array short circuit current	140 A	140 A
DC max. PV operating current	120 A	120 A
Number of MPPT / max. number of inputs per MPPT	1 / 14	1 / 8 (Y connector recommended for up to 14 strings)
DC connectors / DC max. current per input	MC4 / 12 A (mating part included)	Amphenol H4 / 25 A (mating part included)
DC fuses (included)	14 pairs (+), string monitoring included	8 pairs (+/-), string monitoring included
DC switch / DC SPD / AFD	Yes / Type II surge arrester / Null	Yes / Type II surge arrester / Yes
<b>AC Side</b>		
AC max. output power <sup>1</sup>	66 kW	63.4 kW
AC max. continuous apparent power (at nominal AC voltage)	66 kVA	63.4 kVA
AC nominal output voltage / AC operating voltage range	400 V / 310 – 480 V	380 V / 295 - 456V
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	96 A	96 A
Power factor range	0.8 lead to 0.8 lag adjustable	0.8 lead to 0.8 lag adjustable
THD at max. power	< 3%	<3%
AC terminal	Screw clamp terminal, AL - CU type cable compatible	Screw clamp terminal, AL - CU type cable compatible
AC disconnect	Not included	Included
AC connection	4 wire grounded WYE and ungrounded DELTA	4 wire grounded WYE and ungrounded DELTA
<b>General Specifications</b>		
Peak efficiency / Euro or CEC efficiency	98.7% / 98.5%	98.7% / 98.0%
Power consumption at nighttime	< 1 W	< 1 W
Enclosure type protection class	IP 65	Type 4X
Weight	66 kg.	147 lb.
Inverter dimensions (H x W x D)	95.8 x 65.2 x 25.0 cm	38.9 x 25.7 x 9.8 in
Ambient air temperature for operation	-25°C to 60°C <sup>2</sup>	-13°F to 140°F <sup>2</sup>
Max. operating altitude	4000 m, derating > 3000 m	13123 ft, derating > 9842 ft
Relative humidity %	0...100% condensing	0...100% condensing
Audible noise	55 dBA +/- 3 dBA	55 dBA +/- 3 dBA
Inverter mounting	Vertical wall to 0° flat mounting	Vertical wall to 0° flat mounting
<b>User interface and communications</b>		
User interface	LCD display & EasyConfig Tool	LCD display & EasyConfig Tool
Communication interface	RS485-Modbus, Modbus-TCP (Daisy chain capability for both: Modbus RS485 Serial or Modbus TCP over Ethernet). Communication protocol - SunSpec compatible & certified	
<b>Regulatory approval</b>		
Safety, EMC, Efficiency and Environmental standard <sup>3</sup>	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	FCC Class B, UL 1741-2nd edition, CSA C22.2 107.1, CEC efficiency standard, UL1699B
Grid Code Certifications <sup>3</sup>	VDE-0126-1-1, UTE C15-712-1, VDE-AR-N 4105, BDEW, IEC 61727, IEC 62116, G59/3, PEA, MEA	IEEE 1547, IEEE 1547.1
Environmental	RoHS, REACH	RoHS

<sup>1</sup> 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.

<sup>2</sup> Refer to Owners Guide for more details.

<sup>3</sup> Certification is subject to modification.

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