Life Is On | Schneider Electric

Maximize your ROI

CL-60 String Inverter

The ideal solution for decentralized power plants and large commercial buildings.

Solution at a glance

The CL-60 string inverter offers a highly integrated configuration, easy installation, commissioning and services, and world-leading efficiency performance.

It increases energy generation and reduces both CAPEX and OPEX. Along with Schneider Electric's rigorous reliability procedures, the CL-60 is guaranteed for long-term and superior reliability.

The CL-60 is the ideal choice for large commercial projects. It is built for distributed power generation architecture and compatible with a broad range of Schneider Electric MV products as well as Gateway and Insight for easier remote asset management and troubleshooting. We provide a complete system solution for peace of mind.

Higher return on investment

- Integrated wiring box reduces your CAPEX
- String monitoring included
- 66/63.4 kW continuous active power1 reduces total inverters per MW

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)
- Design and qualified for applications in tropical environments

Ease of installation and service

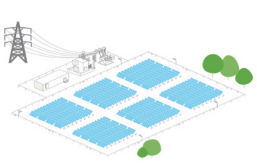
- Pre-wired PV quick connectors
- Zero tilt for flat mounting

Solution to support grid connectivity

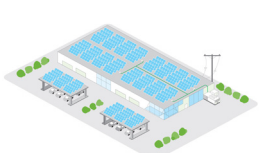
- Broad range of MV products to provide you with a total solution
- Embedded grid support features

TOP PERFORMER 2019 PVEL PV INVERTER SCORECARD

We're honored to announce that Schneider Electric's CL-60 is named as a Top Performer in PV Evolution Labs' (PVEL) PV Inverter Reliability Scorecard. The PVEL PV Inverter Reliability Scorecard is designed to provide with insight into long-term reliability of inverters. The CL-60 has been identified as a top performer in multiple tests including MPPT efficiency, conversion efficiency, energy harvest, and power thermal cycling.



Distributed power generation



Large commercial rooftops

Technical specifications

Higher power and all-inclusive design to reduce your CAPEX

Device short name	CL-60E (IEC Standard)
DC Side	
DC max. input voltage	1000V
DC full power MPPT voltage range (PF=1)	570 - 850 V
DC operating voltage range at nominal AC voltage	570 - 950 V
DC start voltage at nominal AC voltage	620 V
DC max. array short circuit current	140 A
DC max. PV operating current	120 A
Number of MPPT / max. number of inputs per MPPT	1 / 14
DC connectors / DC max. current per input	MC4 / 12 A (mating part included)
DC fuses (included)	14 pairs (+), string monitoring included
DC switch / DC SPD / AFD	Yes / Type II surge arrester / Null
AC Side	
AC max. output power[1]	66 kW
AC max. continuous apparent power (at nominal AC voltage)	66 kVA
AC nominal output voltage / AC operating voltage range	400 V / 310 – 480 V
AC nominal frequency / Frequency range	50 Hz and 60 Hz / 45-55 Hz and 55-65 Hz
AC max. continuous output current	96 A
Power factor range	0.8 lead to 0.8 lag adjustable
THD at nominal power	< 3%
AC terminal	Screw clamp terminal, AL - CU type cable compatible
AC disconnect	Not applicable
AC connection	4 wire grounded WYE and ungrounded DELTA
General Specifications	
Part numbers	PVSCL60E
Peak efficiency / Euro or CEC efficiency	98.7 % / 98.5 %
Power consumption at nighttime	< 1 W
Enclosure type protection class	IP 65
Weight	66 kg.
Inverter dimensions (H x W x D)	95.8 x 65.2 x 25.0 cm
Ambient air temperature for operation	-25°C to 60°C[2]
Max. operating altitude	4000 m, derating > 3000 m
Relative humidity %	0…100% condensing
Audible noise	55 dBA +/- 3 dBA
Inverter mounting	Vertical wall to 0° flat mounting
User interface and communications	
User interface	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
Regulatory approval	
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
Grid code certifications[3]	VDE-0126-1-1, UTE C15-712-1, VDE-AR-N 4105, BDEW, IEC 61727, IEC 62116, G59/3, PEA, MEA
Environmental	RoHS, REACH and 4K4H

[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] Certifications are subject to modification.