

Conext™ CL 33/50 String Inverter



The Conext™ CL 33/50 are the deal solar solution for commercial and industrial buildings, carports, PV Diesel Hybrid and AC coupled systems. Scalable and flexible PV architecture together with Schneider Electric's broad range of low voltage products makes Conext CL range the ideal choice for commercial and industrial buildings.

Optimum System Performance

- Input for 3 MPPTs
- 98.5% Peak Efficiency
- DC/AC ratio upto 1.3
- Integrated DC fuses and DC/AC surge protection

Flexible

- Compatible with Conext™ Gateway and Conext™ Insight 2 for easier remote asset management and troubleshooting.

Easy to Install

- Low weight to allow for easy installation
- Broad range of Schneider Electric LV products for a complete solution
- AC coupling compatible with Schneider Electric CIB storage products

Compatible with Gateway & Insight 2

- Setup and configuration
- Remote monitoring & control with advanced data security
- Web and mobile app
- Multi-site management for installers



Technical Specifications

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	CL 33	CL 50
Input (DC)		
Max. PV input voltage	1100 V	
Min. PV input voltage / Start-up input voltage	200 V / 250 V	
Nominal PV input voltage	585 V	
MPPT voltage range	200 – 1000 V	
MPPT voltage range for nominal power	550 – 850V	
No. of independent MPPT inputs	3	5
Max. number of PV strings per MPPT	2	
Max. PV input current	78 A	130 A
Max. current for input connector	30 A	
Max. DC short-circuit current	120 A	200 A
Output (AC)		
AC output power	36.3 kVA @ 40 C / 33 kVA @ 45 C	55 kVA @ 40 C / 50 kVA @ 45 C
Max. AC output current	55.2 A	83.6 A
Nominal AC voltage	3 / N / PE, 230 / 400 V	
AC voltage range	312 – 528 V	
Nominal grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz	
THD	< 3 % (at nominal power)	
DC current injection	< 0.5 % In	
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging	
Feed-in phases / connection phases	3 / 3	
Efficiency		
Max. efficiency	98.6%	98.7%
General Specifications		
Dimensions (W*H*D)	702*595*310mm	782*645*310mm
Weight	50 kg	62 kg
Isolation method	Transformerless	
Degree of protection	IP66	
Night power consumption	≤2 W	
Operating ambient temperature range	-30 to 60 C (> 45 C derating)	
Allowable relative humidity range (non-condensing)	0 – 100 %	
Cooling method	Smart forced air cooling	
Max. operating altitude	4000 m (> 3000 m derating)	
Display	LED, Bluetooth+APP	
Communication	RS485 / Optional: Wi-Fi, Ethernet	
DC connection type	MC4 (Max. 6 mm²)	
AC connection type	OT or DT terminal (Max.70 mm²)	
System network and remote monitoring	Available with Conext Gateway and Insight 2	
Warranty	Please refer to our website, SEsolar.com for the latest version of the warranty statement.	
Part number		
Protection		
DC reverse connection protection	Yes	
AC short circuit protection	Yes	
Leakage current protection	Yes	
Grid monitoring	Yes	
DC switch / AC switch	Yes / No	
PV String current monitoring	Yes	
Q at night	Yes	
PID recovery function	optional	
Overvoltage protection	DC Type II / AC Type II	
Compatible Products List		
Conext XW Pro	XW Pro 6848 120/240 VAC (865-6848-21), XW Pro 8548 230 VAC 865-8548-55)	
Conext XW+	XW+ 6848 120/240 VAC (865-6848-01), XW+ 8548 230 VAC (865-8548-61)	
Conext SW IEC (230 VAC)	SW 4024 230 VAC (865-4024-55), SW 4048 230 VAC (865-4048-55)	
Conext SW UL (120 VAC)	SW 4024 230 VAC (865-4024-21), SW 4048 230 VAC (865-4048-21)	
Conext XW Power Distribution Panels	865-1015-01, 865-1014-01	
Conext XW Mini Power Distribution Panels	865-1013-01	
MPPT Disconnect RS and RS initiator Switch	865-1036, 865-1039	