

CL 30/33/50 String Inverter



The CL 30/33/50 are the ideal solar solution for commercial and industrial buildings, carports. Scalable and flexible PV architecture together with Schneider Electric's broad range of low voltage products makes CL range the ideal choice for commercial and industrial buildings.

Optimum System Performance

- Input for 3 MPPTs for the CL 30/33 and 5 MPPTs for CL 50
- 98.5% Peak Efficiency
- DC/AC ratio upto 1.3
- Integrated DC fuses and DC/AC surge protection

Flexible

- Compatible with Gateway and Insight 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

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



Technical Specifications

	CL 30	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
DC Disconnect Switch	Yes (1 DC Switch)		Yes (2 DC Switch)
Output (AC)			
Nominal AC output power	29.9 kW	33 kW	50 kW
Max AC output power	29.9 kVA	36.3 kVA	55 kVA
Max. AC output current	48.15 A	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% / 98.3%		98.7% / 98.4%
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 mm ²)	
AC connection type		OT or DT terminal (Max.70 mm ²)	
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	PVSCL30E	PVSCL33E	PVSCL50E
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 8548 230 VAC (865-8548-55)		
Conext Gateway	865-0329		