

# CL 30/33/50 String Inverter

**CL 30/50 Australia**  
**CL 33/50 APAC/EMEA**



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
- 98.7% Peak Efficiency
- DC/AC ratio up to 1.5
- DC/AC surge protection

## Flexible

- Compatible with 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 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
<b>Input (DC)</b>			
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)
<b>Output (AC)</b>			
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		
<b>Efficiency</b>			
Max. efficiency	98.6% / 98.3%		98.7% / 98.4%
<b>General Specifications</b>			
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		
DC connection type	MC4 (Max. 6 mm <sup>2</sup> )		
AC connection type	OT or DT terminal (Max.70 mm <sup>2</sup> )		
System network and remote monitoring	Available with Insight		
Warranty	Please refer to our website, SEsolar.com for the latest version of the warranty statement.		
Part number	PVSCL30E	PVSCL33E	PVSCL50E
<b>Protection</b>			
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		
<b>Compatible Products List</b>			
Conext XW Pro	XW Pro 8548 230 VAC (865-8548-55)		
Insight Energy Management	InsightHome (865-0330), InsightFacility (865-0335)		