

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

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	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)
Max. PV input	45 kW	49.5 kW	76 kW
Output (AC)			
Nominal AC output power	29.9 kW	33 kW	50 kW
Max AC output power (Rated apparent power for Australia)	29.9 kVA (29.9 kVA)	36.3 kVA	55 kVA (50 kVA)
Max. AC output current	48.15 A	55.2 A	83.6 A (80.5 A for Australia)
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		
DC connection type	MC4 (Max. 6 mm²)		
AC connection type	OT or DT terminal (Max.70 mm²)		
System network and remote monitoring	Available with Insight		
Warranty	Please refer to our website, solar.se.com for the latest version of the warranty statement.		
Country of manufacture	China		
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			
XW Pro	XW Pro 8548 230 VAC (865-8548-55)		
Insight Energy Management	InsightHome (865-0330), InsightFacility (865-0335)		