

# 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)                                                          |               |                   |