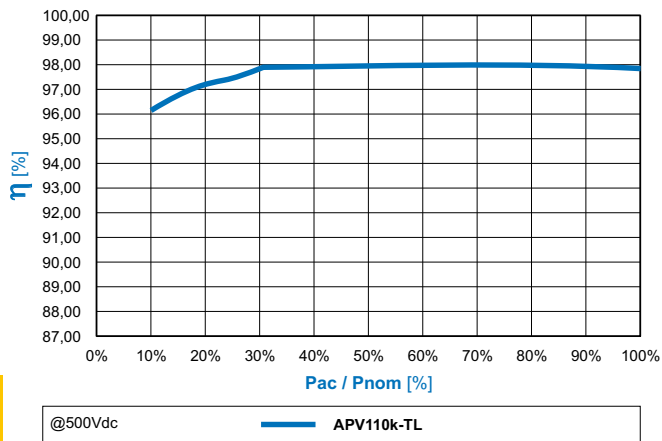


# Sizes APV110k-TL • Dimensions and weight - Technical data



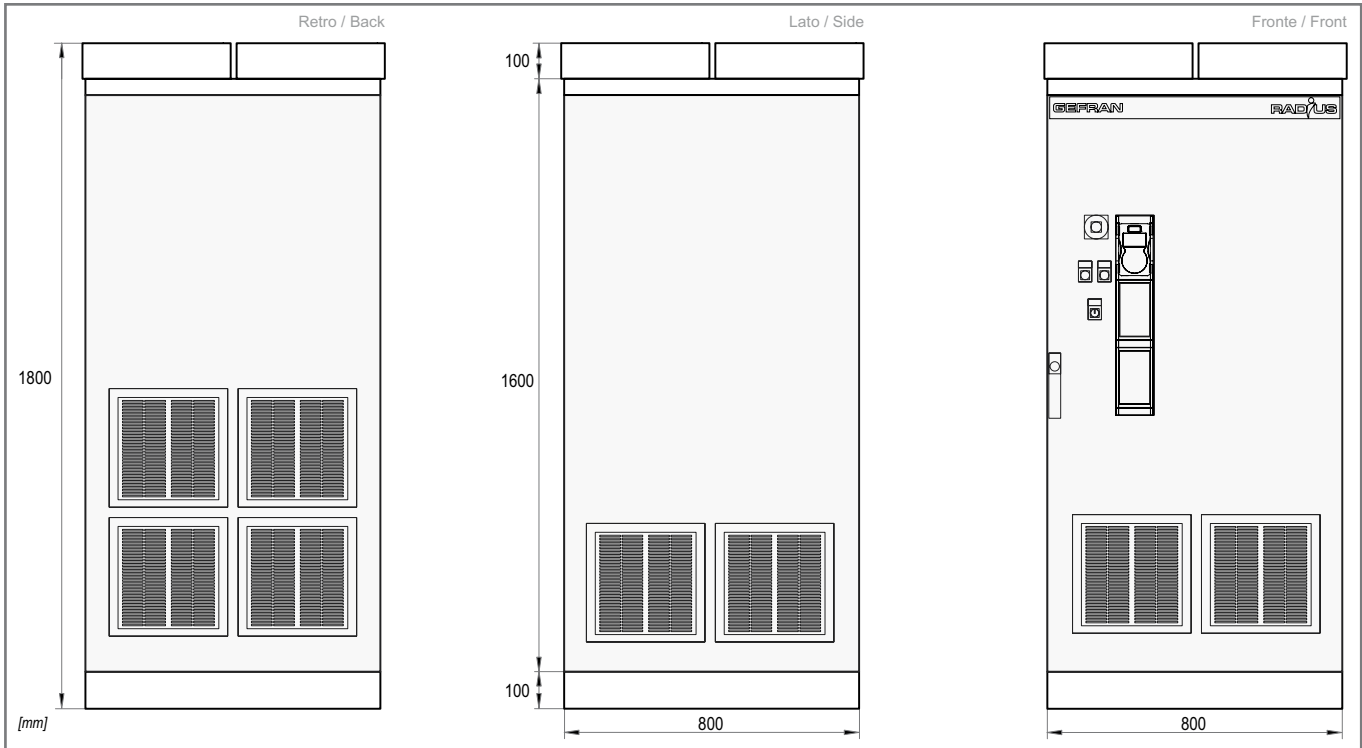
|                          | APV-110k-TL<br>(without transformer) |
|--------------------------|--------------------------------------|
| Rated power<br>(AC side) | 110 kW                               |

Efficiency curve



5 years warranty

## Dimensions and weight



| Model                  |                |  | APV110k-TL                             |
|------------------------|----------------|--|----------------------------------------|
| Dimensions:            |                |  |                                        |
| Width x Height x Depth | mm<br>[inches] |  | 800 x 1800 x 800 [31.5 x 70.87 x 31.5] |
| Weight                 | kg [lbs]       |  | 430 [948]                              |

## Technical data

| Central Inverter - Model                           |                     |                     | APV110k-TL                          | APV110k-TL-E                                                                      | APV110k-TL-RP                         | APV110k-TL-SA               |
|----------------------------------------------------|---------------------|---------------------|-------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------|-----------------------------|
| <b>DC INPUT</b>                                    |                     |                     |                                     |                                                                                   |                                       |                             |
| MPPT voltage range                                 | U <sub>DC</sub>     | [V]                 | 488...850                           | 483...850                                                                         | 483...850                             | 483...850                   |
| Minimum operating voltage                          | U <sub>DC min</sub> | [V]                 | 450                                 | 450                                                                               | 450                                   | 450                         |
| Maximum voltage allowed                            | U <sub>DC max</sub> | [V]                 | 1000 <sup>(1)</sup>                 | 1000 <sup>(1)</sup>                                                               | 1000 <sup>(1)</sup>                   | 1000 <sup>(1)</sup>         |
| Maximum current allowed                            | I <sub>DC max</sub> | [A]                 | 230                                 | 232                                                                               | 232                                   | 232                         |
| <b>AC OUTPUT</b>                                   |                     |                     |                                     |                                                                                   |                                       |                             |
| Rated power                                        |                     | [kW]                | 110                                 | 110                                                                               | 110                                   | 110                         |
| Rated Output voltage                               | U <sub>AC nom</sub> | [V]                 | 320                                 | 290                                                                               | 290                                   | 320                         |
| Maximum current                                    | I <sub>AC max</sub> | [A]                 | 199                                 | 220                                                                               | 220                                   | 211                         |
| Short circuit current (= 1.5*I <sub>n</sub> )      | I <sub>SC</sub>     | [A]                 | 298                                 | 330                                                                               | 330                                   | 317                         |
| Grid frequency                                     | f <sub>AC</sub>     | [Hz]                | 50                                  | 50                                                                                | 50                                    | 50                          |
| Harmonic distortion                                | THD grid            | [%]                 | ≤ 3                                 | ≤ 3                                                                               | ≤ 3                                   | ≤ 3                         |
| Power factor at rated power                        | cosphi              |                     | 0.99                                | 0.99                                                                              | 0.99                                  | 0.99                        |
| Adjustable power factor                            | cosphi              |                     | from -0.9 to +0.9                   | from -0.9 to +0.9                                                                 | from -0.9 to +0.9                     | from -0.9 to +0.9           |
| <b>EFFICIENCY RATING</b>                           |                     |                     |                                     |                                                                                   |                                       |                             |
| Maximum efficiency <sup>(2)</sup>                  |                     | [%]                 | 98.0                                | 98.0                                                                              | 98.0                                  | 98.0                        |
| European efficiency (Euro-ETA) <sup>(2)</sup>      |                     | [%]                 | 97.5                                | 97.5                                                                              | 97.5                                  | 97.5                        |
| <b>GENERAL DATA</b>                                |                     |                     |                                     |                                                                                   |                                       |                             |
| Protection class                                   |                     |                     | IP30                                |                                                                                   |                                       |                             |
| Power switch on AC side                            |                     |                     | no                                  |                                                                                   |                                       |                             |
| Power switch on DC side                            |                     |                     | yes                                 |                                                                                   |                                       |                             |
| Reverse polarity protection diodes on DC side      |                     |                     | yes                                 |                                                                                   |                                       |                             |
| Ground fault monitoring                            |                     |                     | optional                            |                                                                                   |                                       |                             |
| Overcurrent protection                             | AC side             |                     | yes                                 |                                                                                   |                                       |                             |
|                                                    | DC side             |                     | no                                  |                                                                                   |                                       |                             |
| Overvoltage protection                             | AC side             |                     | no                                  |                                                                                   |                                       |                             |
|                                                    | DC side             |                     | optional                            |                                                                                   |                                       |                             |
| Remote plant monitoring                            |                     |                     | optional                            |                                                                                   |                                       |                             |
| Ground kit                                         |                     |                     | optional <sup>(1)</sup>             |                                                                                   |                                       |                             |
| Ambient temperature range (without power derating) |                     | [°C]                | from -10 °C to + 50 °C              |                                                                                   |                                       |                             |
| Requested air flow (input)                         |                     | [m <sup>3</sup> /h] | 3000                                |                                                                                   |                                       |                             |
| Cooling                                            |                     |                     | Thermostatically-controlled         |                                                                                   |                                       |                             |
| Relative humidity of air                           |                     | [%]                 | from 5% to 85% without condensation |                                                                                   |                                       |                             |
| Maximum altitude                                   |                     | [m]                 | 1000 m (2000 m with derating)       |                                                                                   |                                       |                             |
| Topology                                           |                     |                     | Without transformer                 |                                                                                   |                                       |                             |
| Certification                                      |                     |                     | CE; CEI 0-16 ed. III                | CE; VDE V 0126-1-1;<br>RD 1663; G59/1; G59/2;<br>C10/11; AS 4777.2; AS<br>4777.3. | CE; BDEW; RD 1565/2010,<br>P.O. 12.3. | CE; South African Grid code |

(1) For string configurations, maximum recommended V<sub>DC</sub> voltage 965V. If using the ground kit, maximum V<sub>DC</sub> = 900V.(2) Efficiency refers to values calculated at 500 V<sub>DC</sub> (at 25°C), excluding auxiliary power supply.