



# Fronius Verto



# Product advantages



## 01 Total flexibility

The Fronius Verto offers maximum flexibility with up to four high-current MPP trackers and a wide voltage range. This makes the inverter ideally suited to complex system designs and all your individual requirements. What's more, the Fronius Verto uses an integrated Dynamic Peak Manager algorithm that enables users to achieve optimal yields even in shady conditions.

## 02 Maximum safety

With an integrated surge protection device and an Arc Fault Circuit Interrupter (Fronius Arc Guard), the Fronius Verto guarantees the very highest safety standards even in its basic configuration, without the need to pay for additional components. With Fronius, you can also rest assured that your data is in the best hands. This is ensured by our certified information security system and our servers and cloud storage in Europe.

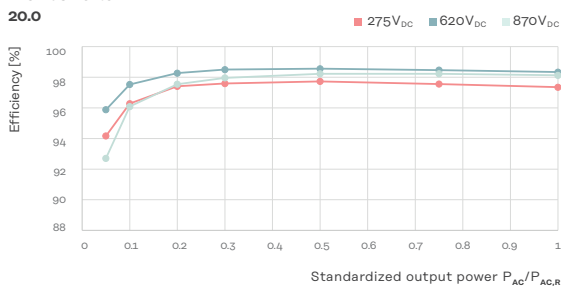
## 03 Optimal use

Use excess solar energy for other PV applications such as e-mobility or heat, save costs, and ensure faster amortization for your system. Thanks to its open interfaces, the Fronius Verto enables easy integration of consumption regulators, such as the Fronius Ohmpilot or Fronius Wattpilot Flex. A perfect addition to your PV system: Our Fronius EMIL software solution supplies your e-fleet with electricity in a fully automated process across all locations. Heat pumps or smarthome systems are easy to integrate and work well with the Fronius Verto.

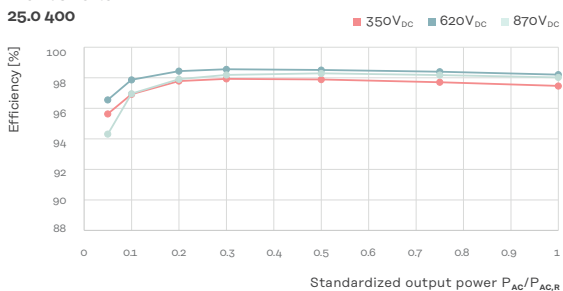
# Fronius Verto

## Efficiency

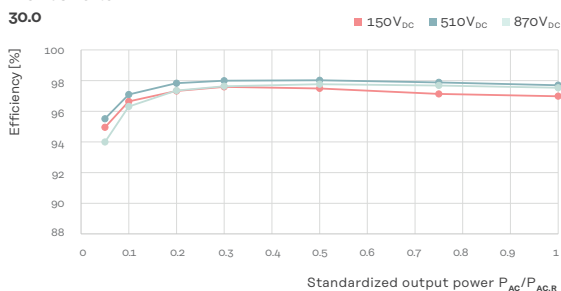
Fronius Verto  
20.0



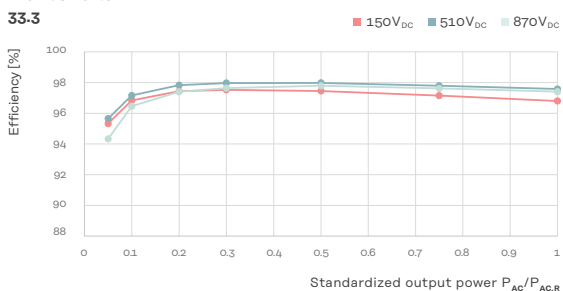
Fronius Verto  
25.0 400



Fronius Verto  
30.0

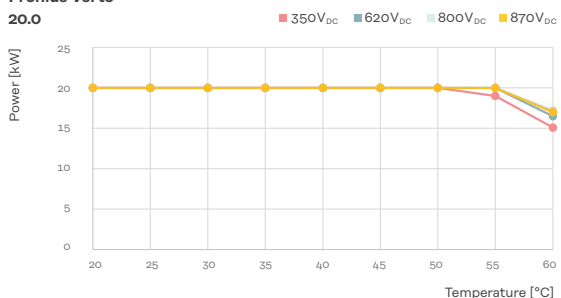


Fronius Verto  
33.3

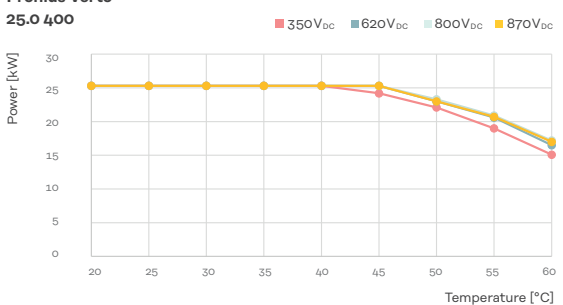


## Power derating

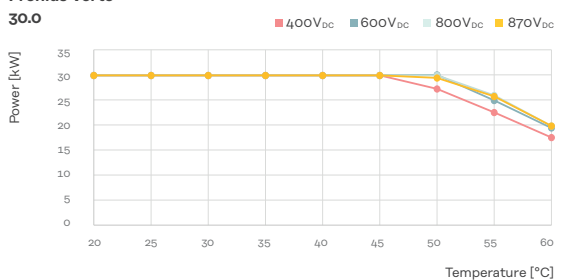
Fronius Verto  
20.0



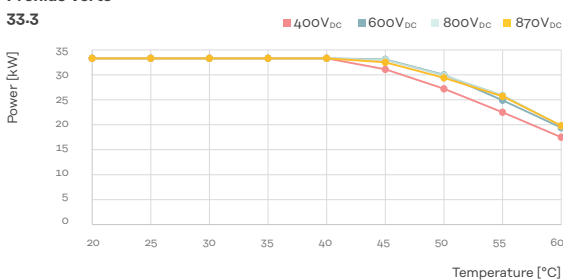
Fronius Verto  
25.0 400



Fronius Verto  
30.0



Fronius Verto  
33.3



# Technical data

## Verto 15.0 - 25.0 400

|             |                                                                                            |                 | Fronius Verto                                                                   |      |      |      |                                                                                 |      |      |      |                                                                                 |      |      |      |                                                            |      |      |  |
|-------------|--------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------|------|------|------|---------------------------------------------------------------------------------|------|------|------|---------------------------------------------------------------------------------|------|------|------|------------------------------------------------------------|------|------|--|
|             |                                                                                            |                 | Verto 15.0                                                                      |      |      |      | Verto 17.5                                                                      |      |      |      | Verto 20.0                                                                      |      |      |      | Verto 25.0 400                                             |      |      |  |
| Input data  | Number of MPP trackers                                                                     |                 | 3                                                                               |      |      |      | 3                                                                               |      |      |      | 3                                                                               |      |      |      | 3                                                          |      |      |  |
|             | Number of DC connections per MPPT                                                          |                 | 2 / 1 / 1                                                                       |      |      |      | 2 / 1 / 1                                                                       |      |      |      | 2 / 1 / 1                                                                       |      |      |      | 2 / 1 / 1                                                  |      |      |  |
|             | Max. usable input current per MPPT ( $I_{dc\ max, MPPT}$ )                                 | A               | 28                                                                              |      |      |      | 28                                                                              |      |      |      | 28                                                                              |      |      |      | 28                                                         |      |      |  |
|             | Max. usable input current per string ( $I_{dc\ max, string}$ ) <sup>1</sup>                | A               | 28                                                                              |      |      |      | 28                                                                              |      |      |      | 28                                                                              |      |      |      | 28                                                         |      |      |  |
|             | Max. module array short circuit current - MPPT ( $I_{sc\ pv, MPPT}$ ) <sup>2</sup>         | A               | 50                                                                              |      |      |      | 50                                                                              |      |      |      | 50                                                                              |      |      |      | 50                                                         |      |      |  |
|             | Max. module array short circuit current - per string ( $I_{sc\ pv, string}$ ) <sup>2</sup> | A               | 50                                                                              |      |      |      | 50                                                                              |      |      |      | 50                                                                              |      |      |      | 50                                                         |      |      |  |
|             | Max. module array short circuit current - inverter ( $I_{sc\ pv, inverter}$ ) <sup>2</sup> | A               | 100                                                                             |      |      |      | 100                                                                             |      |      |      | 100                                                                             |      |      |      | 100                                                        |      |      |  |
|             | Nominal input voltage ( $U_{dc,r}$ )                                                       | V               | 600                                                                             |      |      |      | 600                                                                             |      |      |      | 600                                                                             |      |      |      | 600                                                        |      |      |  |
|             | DC input voltage range ( $U_{dc\ min} - U_{dc\ max}$ )                                     | V               | 150–1,000                                                                       |      |      |      | 150–1,000                                                                       |      |      |      | 150–1,000                                                                       |      |      |      | 150–1,000                                                  |      |      |  |
|             | Feed-in start-up input voltage ( $U_{dc\ start}$ )                                         | V               | 150                                                                             |      |      |      | 150                                                                             |      |      |      | 150                                                                             |      |      |      | 150                                                        |      |      |  |
|             | MPP voltage range ( $U_{mpp\ min} - U_{mpp\ max}$ ) <sup>1</sup>                           | V               | 150–870                                                                         |      |      |      | 150–870                                                                         |      |      |      | 150–870                                                                         |      |      |      | 150–870                                                    |      |      |  |
|             | MPP voltage range (at rated power) ( $U_{mpp\ min} - U_{mpp\ max}$ )                       | V               | 210–870                                                                         |      |      |      | 245–870                                                                         |      |      |      | 275–870                                                                         |      |      |      | 335–870                                                    |      |      |  |
|             | Max. usable DC output ( $P_{dc\ max, PV}$ )                                                | Wpeak           | 13,000                                                                          |      |      |      | 13,000                                                                          |      |      |      | 13,000                                                                          |      |      |      | 13,000                                                     |      |      |  |
|             | Max. PV generator output - MPPT ( $P_{PV\ max}$ )                                          | Wpeak           | 19,500                                                                          |      |      |      | 19,500                                                                          |      |      |      | 19,500                                                                          |      |      |      | 19,500                                                     |      |      |  |
|             | Max. PV generator output - inverter ( $P_{PV\ max}$ )                                      | Wpeak           | 22,500                                                                          |      |      |      | 26,250                                                                          |      |      |      | 30,000                                                                          |      |      |      | 37,500                                                     |      |      |  |
| Output data | AC rated power ( $P_{ac,r}$ )                                                              | W               | 15,000                                                                          |      |      |      | 17,500                                                                          |      |      |      | 20,000                                                                          |      |      |      | 25,000                                                     |      |      |  |
|             | Max. output power                                                                          | VA              | 15,000                                                                          |      |      |      | 17,500                                                                          |      |      |      | 20,000                                                                          |      |      |      | 25,000                                                     |      |      |  |
|             |                                                                                            | V <sub>AC</sub> | 380                                                                             | 400  | 440  | 480  | 380                                                                             | 400  | 440  | 480  | 380                                                                             | 400  | 440  | 480  | 400                                                        | 440  | 480  |  |
|             | Nominal AC output current ( $I_{ac,r}$ )                                                   | A               | 22.7                                                                            | 21.7 | 19.7 | 18.2 | 26.5                                                                            | 25.4 | 23.0 | 21.2 | 30.3                                                                            | 29.0 | 26.2 | 24.2 | 36.2                                                       | 32.8 | 30.1 |  |
|             | Grid connection ( $U_{ac,r}$ )                                                             | V               | 3~ (N)PE 380/220;<br>3~ (N)PE 400/230;<br>3~ (N)PE 440/254;<br>3~ (N)PE 480/275 |      |      |      | 3~ (N)PE 380/220;<br>3~ (N)PE 400/230;<br>3~ (N)PE 440/254;<br>3~ (N)PE 480/276 |      |      |      | 3~ (N)PE 380/220;<br>3~ (N)PE 400/230;<br>3~ (N)PE 440/254;<br>3~ (N)PE 480/277 |      |      |      | 3~ (N)PE 400/230;<br>3~ (N)PE 440/254;<br>3~ (N)PE 480/279 |      |      |  |
|             | Frequency (frequency range $f_{min} - f_{max}$ )                                           | Hz              | 50/60 (45–65)                                                                   |      |      |      | 50/60 (45–65)                                                                   |      |      |      | 50/60 (45–65)                                                                   |      |      |      | 50/60 (45–65)                                              |      |      |  |
|             | Total harmonic distortion                                                                  | %               | < 3                                                                             |      |      |      | < 3                                                                             |      |      |      | < 1                                                                             |      |      |      | < 1                                                        |      |      |  |
|             | Power factor ( $\cos \varphi_{ac,r}$ )                                                     |                 | 0–1 ind./cap.                                                                   |      |      |      | 0–1 ind./cap.                                                                   |      |      |      | 0–1 ind./cap.                                                                   |      |      |      | 0–1 ind./cap.                                              |      |      |  |

<sup>1</sup> A single String is capable of utilizing full usable MPP current. The current per MPPT is limited to total 28A.

<sup>2</sup>  $I_{sc\ pv} = I_{sc\ max} \geq I_{sc\ (STC)} \times 1.25$  according e.g.: IEC 60364-7-712, NEC 2020, AS/NZS 5033:2021.

|                       |                                                   |                      | Fronius Verto                                               |                                                                                                                                                                                      |            |                |
|-----------------------|---------------------------------------------------|----------------------|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------|
|                       |                                                   |                      | Verto 15.0                                                  | Verto 17.5                                                                                                                                                                           | Verto 20.0 | Verto 25.0 400 |
| General data          | Dimensions (height × width × depth)               | mm                   | 730 x 540 x 278                                             |                                                                                                                                                                                      |            |                |
|                       | Weight (inverter)                                 | kg                   | 35.20                                                       |                                                                                                                                                                                      |            |                |
|                       | Degree of protection                              |                      | IP 66                                                       |                                                                                                                                                                                      |            |                |
|                       | Safety class                                      |                      | 1                                                           |                                                                                                                                                                                      |            |                |
|                       | Overvoltage category (DC/AC)                      |                      | 2/3                                                         |                                                                                                                                                                                      |            |                |
|                       | Night-time consumption                            | W                    | < 16                                                        |                                                                                                                                                                                      |            |                |
|                       | Cooling                                           |                      | Active Cooling Technology                                   |                                                                                                                                                                                      |            |                |
|                       | Installation                                      |                      | Indoor and outdoor installation, 90°-10° tilt               |                                                                                                                                                                                      |            |                |
|                       | Ambient temperature range                         | °C                   | -40 to +60                                                  |                                                                                                                                                                                      |            |                |
|                       | Permissible humidity                              | %                    | 0–100                                                       |                                                                                                                                                                                      |            |                |
|                       | Noise emissions                                   | dB (A)               | < 56.5                                                      |                                                                                                                                                                                      |            |                |
|                       | Max. altitude                                     | m                    | 3,000/4,000 (unrestricted/restricted voltage range)         |                                                                                                                                                                                      |            |                |
|                       | Certificates and compliance with standards        |                      | IEC 62109-1/-2; VDE-AR-N 4105:2018; R25;                    |                                                                                                                                                                                      |            |                |
| Connection technology | AC                                                | Cable cross-section  | mm²                                                         | 4–35                                                                                                                                                                                 |            |                |
|                       |                                                   | Conductor material   |                                                             | Al and Cu                                                                                                                                                                            |            |                |
|                       |                                                   | Cable gland          |                                                             | AC: M32 (Ø12–24.5 mm) Prepared for option 1: M50 cable gland (Ø10–35 mm) Option 2: 1.5" conduit connection<br>PE & data communication: 2 x M32 (3 x Ø 4.9–5.5 mm + 3 x Ø 6.7–8.5 mm) |            |                |
|                       | DC                                                | Connection terminals |                                                             | DC direct connection Stäubli Multi Contact MC4                                                                                                                                       |            |                |
|                       |                                                   | Conductor material   |                                                             | Al and Cu                                                                                                                                                                            |            |                |
| Efficiency            | Max. efficiency                                   | %                    | 98.53                                                       | 98.55                                                                                                                                                                                | 98.56      | 98.56          |
|                       | Europ. efficiency (ηEU)                           | %                    | 98.19                                                       | 98.29                                                                                                                                                                                | 98.33      | 98.35          |
|                       | MPP adaptation efficiency                         | %                    | > 99.9                                                      |                                                                                                                                                                                      |            |                |
| Protection devices    | DC insulation measurement                         |                      | Integrated                                                  |                                                                                                                                                                                      |            |                |
|                       | DC disconnecter                                   |                      | Integrated                                                  |                                                                                                                                                                                      |            |                |
|                       | RCMU                                              |                      | Integrated                                                  |                                                                                                                                                                                      |            |                |
|                       | Arc fault circuit interrupter (Fronius Arc Guard) |                      | Integrated                                                  |                                                                                                                                                                                      |            |                |
|                       | Reverse polarity protection                       |                      | Integrated                                                  |                                                                                                                                                                                      |            |                |
|                       | DC surge protection                               |                      | Type 1+2                                                    |                                                                                                                                                                                      |            |                |
|                       | AC surge protection                               |                      | Type 2                                                      |                                                                                                                                                                                      |            |                |
| Interfaces            | WLAN                                              |                      | Fronius Solar.web, Modbus TCP, JSON, 802.11b/g              |                                                                                                                                                                                      |            |                |
|                       | 2 x Ethernet LAN RJ45                             |                      | 10/100 Mbit; max. 100 m Fronius Solar.web, Modbus TCP, JSON |                                                                                                                                                                                      |            |                |
|                       | Wired Shutdown (WSD)                              |                      | Integrated                                                  |                                                                                                                                                                                      |            |                |
|                       | 2 × RS485                                         |                      | Modbus RTU SunSpec / Fronius Smart Meter                    |                                                                                                                                                                                      |            |                |
|                       | 6 inputs and 6 digital inputs/ outputs            |                      | Connection to ripple control receiver, energy management    |                                                                                                                                                                                      |            |                |
|                       | Datalogger and Webserver                          |                      | Integrated                                                  |                                                                                                                                                                                      |            |                |

# Technical data

## Verto 27.0 - 33.3

|             |                                                                                            |                 | Fronius Verto                                                                  |      |      |      |                                                                                |      |      |      |                                                                                |      |      |      |
|-------------|--------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------|------|------|------|--------------------------------------------------------------------------------|------|------|------|--------------------------------------------------------------------------------|------|------|------|
|             |                                                                                            |                 | Verto 27.0                                                                     |      |      |      | Verto 30.0                                                                     |      |      |      | Verto 33.3                                                                     |      |      |      |
| Input data  | Number of MPP trackers                                                                     |                 | 4                                                                              |      |      |      | 4                                                                              |      |      |      | 4                                                                              |      |      |      |
|             | Number of DC connections per MPPT                                                          |                 | 2                                                                              |      |      |      | 2                                                                              |      |      |      | 2                                                                              |      |      |      |
|             | Max. usable input current per MPPT ( $I_{dc\ max, MPPT}$ )                                 | A               | 28                                                                             |      |      |      | 28                                                                             |      |      |      | 28                                                                             |      |      |      |
|             | Max. usable input current per string ( $I_{dc\ max, string}$ ) <sup>1</sup>                | A               | 28                                                                             |      |      |      | 28                                                                             |      |      |      | 28                                                                             |      |      |      |
|             | Max. module array short circuit current - MPPT ( $I_{sc\ pv, MPPT}$ ) <sup>2</sup>         | A               | 50                                                                             |      |      |      | 50                                                                             |      |      |      | 50                                                                             |      |      |      |
|             | Max. module array short circuit current - per string ( $I_{sc\ pv, string}$ ) <sup>2</sup> | A               | 50                                                                             |      |      |      | 50                                                                             |      |      |      | 50                                                                             |      |      |      |
|             | Max. module array short circuit current - inverter ( $I_{sc\ pv, inverter}$ ) <sup>2</sup> | A               | 150                                                                            |      |      |      | 150                                                                            |      |      |      | 150                                                                            |      |      |      |
|             | Nominal input voltage ( $U_{dc,r}$ )                                                       | V               | 600                                                                            |      |      |      | 600                                                                            |      |      |      | 600                                                                            |      |      |      |
|             | DC input voltage range ( $U_{dc\ min} - U_{dc\ max}$ )                                     | V               | 150–1,000                                                                      |      |      |      | 150–1,000                                                                      |      |      |      | 150–1,000                                                                      |      |      |      |
|             | Feed-in start-up input voltage ( $U_{dc\ start}$ )                                         | V               | 150                                                                            |      |      |      | 150                                                                            |      |      |      | 150                                                                            |      |      |      |
|             | MPP voltage range ( $U_{mpp\ min} - U_{mpp\ max}$ ) <sup>1</sup>                           | V               | 150–870                                                                        |      |      |      | 150–870                                                                        |      |      |      | 150–870                                                                        |      |      |      |
|             | MPP voltage range (at rated power) ( $U_{mpp\ min} - U_{mpp\ max}$ )                       | V               | 330–870                                                                        |      |      |      | 360–870                                                                        |      |      |      | 400–870                                                                        |      |      |      |
|             | Max. usable DC output ( $P_{dc\ max, PV}$ )                                                | Wpeak           | 13,000                                                                         |      |      |      | 13,000                                                                         |      |      |      | 13,000                                                                         |      |      |      |
|             | Max. PV generator output - MPPT ( $P_{PV\ max}$ )                                          | Wpeak           | 20,000                                                                         |      |      |      | 20,000                                                                         |      |      |      | 20,000                                                                         |      |      |      |
|             | Max. PV generator output - inverter ( $P_{PV\ max}$ )                                      | Wpeak           | 40,500                                                                         |      |      |      | 45,000                                                                         |      |      |      | 50,000                                                                         |      |      |      |
| Output data | AC rated power ( $P_{ac,r}$ )                                                              | W               | 27,000                                                                         |      |      |      | 29,990                                                                         |      |      |      | 33,300                                                                         |      |      |      |
|             | Max. output power                                                                          | VA              | 27,000                                                                         |      |      |      | 29,990                                                                         |      |      |      | 33,300                                                                         |      |      |      |
|             |                                                                                            | V <sub>AC</sub> | 380                                                                            | 400  | 440  | 480  | 380                                                                            | 400  | 440  | 480  | 380                                                                            | 400  | 440  | 480  |
|             | Nominal AC output current ( $I_{ac,r}$ )                                                   | A               | 40.9                                                                           | 39.1 | 35.4 | 32.5 | 45.5                                                                           | 43.5 | 39.4 | 36.1 | 50.5                                                                           | 48.3 | 43.7 | 40.1 |
|             | Grid connection ( $U_{ac,r}$ )                                                             | V               | 3~ (N)PE 380/220;<br>3~ (N)PE 400/230<br>3~ (N)PE 440/254;<br>3~ (N)PE 480/276 |      |      |      | 3~ (N)PE 380/220;<br>3~ (N)PE 400/230<br>3~ (N)PE 440/254;<br>3~ (N)PE 480/276 |      |      |      | 3~ (N)PE 380/220;<br>3~ (N)PE 400/230<br>3~ (N)PE 440/254;<br>3~ (N)PE 480/276 |      |      |      |
|             | Frequency (frequency range $f_{min} - f_{max}$ )                                           | Hz              | 50/60 (45–65)                                                                  |      |      |      | 50/60 (45–65)                                                                  |      |      |      | 50/60 (45–65)                                                                  |      |      |      |
|             | Total harmonic distortion                                                                  | %               | < 3                                                                            |      |      |      | < 1                                                                            |      |      |      | < 1                                                                            |      |      |      |
|             | Power factor ( $\cos \varphi_{ac,r}$ )                                                     |                 | 0–1 ind./cap.                                                                  |      |      |      | 0–1 ind./cap.                                                                  |      |      |      | 0–1 ind./cap.                                                                  |      |      |      |

<sup>1</sup> A single String is capable of utilizing full usable MPP current. The current per MPPT is limited to total 28A.

<sup>2</sup>  $I_{sc\ pv} = I_{sc\ max} \geq I_{sc\ (STC)} \times 1.25$  according e.g.: IEC 60364-7-712, NEC 2020, AS/NZS 5033:2021.

|                       |                                                   |                      | Fronius Verto                                                                                                                                            |                                                                                                                                                                                   |            |
|-----------------------|---------------------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
|                       |                                                   |                      | Verto 27.0                                                                                                                                               | Verto 30.0                                                                                                                                                                        | Verto 33.3 |
| General data          | Dimensions (height × width × depth)               | mm                   | 865 x 574 x 279                                                                                                                                          |                                                                                                                                                                                   |            |
|                       | Weight (inverter)                                 | kg                   | 41.75                                                                                                                                                    |                                                                                                                                                                                   |            |
|                       | Degree of protection                              |                      | IP 66                                                                                                                                                    |                                                                                                                                                                                   |            |
|                       | Safety class                                      |                      | 1                                                                                                                                                        |                                                                                                                                                                                   |            |
|                       | Overvoltage category (DC/AC)                      |                      | 2/3                                                                                                                                                      |                                                                                                                                                                                   |            |
|                       | Night-time consumption                            | W                    | < 16                                                                                                                                                     |                                                                                                                                                                                   |            |
|                       | Cooling                                           |                      | Active Cooling Technology                                                                                                                                |                                                                                                                                                                                   |            |
|                       | Installation                                      |                      | Indoor and outdoor installation, 90°-10° tilt                                                                                                            |                                                                                                                                                                                   |            |
|                       | Ambient temperature range                         | °C                   | -40 to +60                                                                                                                                               |                                                                                                                                                                                   |            |
|                       | Permissible humidity                              | %                    | 0–100                                                                                                                                                    |                                                                                                                                                                                   |            |
|                       | Noise emissions                                   | dB (A)               | < 54.6                                                                                                                                                   |                                                                                                                                                                                   |            |
|                       | Max. altitude                                     | m                    | 3,000/4,000 (unrestricted/restricted voltage range)                                                                                                      |                                                                                                                                                                                   |            |
|                       | Certificates and compliance with standards        |                      | IEC 62109-1/-2; VDE-AR-N 4105:2018; R25; EN 50549-1/-2; CEI 0-16; CEI 0-21; UNE 217002:2020; IEC 62116; IEC 61727; AS/NZS 4777.2:2020+A1; IEC63027:2023: |                                                                                                                                                                                   |            |
| Connection technology | AC                                                | Cable cross-section  | mm²                                                                                                                                                      | 4–35                                                                                                                                                                              |            |
|                       |                                                   | Conductor material   |                                                                                                                                                          | Al and Cu                                                                                                                                                                         |            |
|                       |                                                   | Cable gland          |                                                                                                                                                          | AC: M32 (Ø12–24.5 mm) Prepared for option 1: M50 cable gland (Ø10–35 mm) Option 2: 1.5" conduit connection PE & data communication: 2 x M32 (3 x Ø 4.9–5.5 mm + 3 x Ø 6.7–8.5 mm) |            |
|                       | DC                                                | Connection terminals |                                                                                                                                                          | DC direct connection Stäubli Multi Contact MC4                                                                                                                                    |            |
|                       |                                                   | Conductor material   |                                                                                                                                                          | Al and Cu                                                                                                                                                                         |            |
| Efficiency            | Max. efficiency                                   | %                    | 98.03                                                                                                                                                    | 98.02                                                                                                                                                                             | 97.98      |
|                       | Europ. efficiency (ηEU)                           | %                    | 97.79                                                                                                                                                    | 97.80                                                                                                                                                                             | 97.76      |
|                       | MPP adaptation efficiency                         | %                    | > 99.9                                                                                                                                                   |                                                                                                                                                                                   |            |
| Protection devices    | DC insulation measurement                         |                      | Integrated                                                                                                                                               |                                                                                                                                                                                   |            |
|                       | DC disconnecter                                   |                      | Integrated                                                                                                                                               |                                                                                                                                                                                   |            |
|                       | RCMU                                              |                      | Integrated                                                                                                                                               |                                                                                                                                                                                   |            |
|                       | Arc fault circuit interrupter (Fronius Arc Guard) |                      | Integrated                                                                                                                                               |                                                                                                                                                                                   |            |
|                       | Reverse polarity protection                       |                      | Integrated                                                                                                                                               |                                                                                                                                                                                   |            |
|                       | DC surge protection                               |                      | Type 1+2 or Type 2                                                                                                                                       |                                                                                                                                                                                   |            |
|                       | AC surge protection                               |                      | Type 1+2 or Type 2                                                                                                                                       |                                                                                                                                                                                   |            |
| Interfaces            | WLAN                                              |                      | Fronius Solar.web, Modbus TCP, JSON, 802.11b/g                                                                                                           |                                                                                                                                                                                   |            |
|                       | 2 x Ethernet LAN RJ45                             |                      | 10/100 Mbit; max. 100 m Fronius Solar.web, Modbus TCP, JSON                                                                                              |                                                                                                                                                                                   |            |
|                       | Wired Shutdown (WSD)                              |                      | Integrated                                                                                                                                               |                                                                                                                                                                                   |            |
|                       | 2 × RS485                                         |                      | Modbus RTU SunSpec / Fronius Smart Meter                                                                                                                 |                                                                                                                                                                                   |            |
|                       | 6 inputs and 6 digital inputs/ outputs            |                      | Connection to ripple control receiver, energy management                                                                                                 |                                                                                                                                                                                   |            |
|                       | Datalogger and Webserver                          |                      | Integrated                                                                                                                                               |                                                                                                                                                                                   |            |



# Your photovoltaic system can do more

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Fronius Verto, the adaptable inverter for small businesses, agricultural applications, and apartment buildings. Its flexibility makes it the perfect choice, both for constructing a new PV system and expanding an existing one. Featuring integrated safety features and innovative shade management, the Fronius Verto ensures optimum operation. Our flexible inverter facilitates energy sector integration thanks to its open interfaces. This means that it is easy to integrate charging stations such as Fronius Wattpilot Flex and consumption regulators such as Fronius Ohmpilot.

For more information about the product, visit:

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