



## PRODUCT DETAILS

### TECHNICAL DATA

#### INPUT DATA

Number of MPP trackers	1,0
Max. input current ( $I_{dc\ max}$ )	44,2 A
Max. short circuit current, module array	71,6 A
DC input voltage range ( $U_{dc\ min} - U_{dc\ max}$ )	580 - 1000 V
Feed-in start voltage ( $U_{dc\ start}$ )	650,0 V
Nominal input voltage ( $U_{dc,r}$ )	580,0 V
MPP voltage range ( $U_{mpp\ min} - U_{mpp\ max}$ )	580 - 850 V
Usable MPP voltage range	580 - 850 V
Number of DC connections	6,0
Max. PV generator power ( $P_{dc\ max}$ )	37,8 kW <sub>peak</sub>

## OUTPUT DATA

<b>AC nominal output (<math>P_{ac,r}</math>)</b>	25,0 kW
<b>Max. output power (<math>P_{ac,max}</math>)</b>	25,0 kVA
<b>AC output current (<math>I_{ac,nom}</math>)</b>	37,9 / 36,2 A
<b>Grid connection (<math>U_{ac,r}</math>)</b>	3~ NPE 400/230, 3~ NPE 380/220 V
<b>AC voltage range (<math>U_{min} - U_{max}</math>)</b>	150 - 275 V
<b>Frequency (<math>f_r</math>)</b>	50 / 60 Hz
<b>Frequency range (<math>f_{min} - f_{max}</math>)</b>	45 - 65 Hz
<b>Total harmonic distortion</b>	< 2 %
<b>Power factor (<math>\cos \varphi_{ac,r}</math>)</b>	0 - 1 ind./cap.

## GENERAL DATA

<b>Height</b>	725,0 mm
<b>Width</b>	510,0 mm
<b>Depth</b>	225,0 mm
<b>Weight</b>	35,7 kg
<b>Degree of protection</b>	IP 66
<b>Protection class</b>	1,0
<b>Overvoltage category (DC / AC)<sup>1)</sup></b>	2 / 3
<b>Night-time consumption</b>	< 1 W
<b>Inverter design</b>	Transformerless

<b>Cooling</b>	Regulated air cooling
<b>Installation</b>	Indoors and outdoors
<b>Ambient temperature range</b>	-25°C - +60°C
<b>Permitted humidity</b>	0 - 100 %
<b>Max. altitude <sup>2)</sup></b>	2.000 m
<b>DC connection technology</b>	6x DC+ and 6x DC- screw terminals 2.5 - 16 mm <sup>2</sup>
<b>AC connection technology</b>	5-pin AC screw terminals 2.5 - 16 mm <sup>2</sup>
<b>Certificates and compliance with standards</b>	ÖVE / ÖNORM E 8001-4-712, DIN V VDE 0126-1-1/A1, VDE AR N 4105, IEC 62109-1/-2, IEC 62116, IEC 61727, AS 3100, AS 4777-2, AS 4777-3, CER 06-190, G59/3, UNE 206007-1, SI 4777, CEI 0-16, CEI 0-21

## EFFICIENCY

<b>Max. efficiency (PV - grid)</b>	98,2 %
<b>European efficiency (<math>\eta</math>EU)</b>	98,0 %
<b><math>\eta</math> at 5% <math>P_{ac,r}^{3)}</math></b>	95,1 / 91,5 %
<b><math>\eta</math> at 10% <math>P_{ac,r}^{3)}</math></b>	97,0 / 95,2 %
<b><math>\eta</math> at 20% <math>P_{ac,r}^{3)}</math></b>	97,8 / 96,9 %
<b><math>\eta</math> at 25% <math>P_{ac,r}^{3)}</math></b>	98,0 / 97,0 %
<b><math>\eta</math> at 30% <math>P_{ac,r}^{3)}</math></b>	98,1 / 97,2 %
<b><math>\eta</math> at 50% <math>P_{ac,r}^{3)}</math></b>	98,2 / 97,5 %
<b><math>\eta</math> at 75% <math>P_{ac,r}^{3)}</math></b>	98,2 / 97,5 %
<b><math>\eta</math> at 100% <math>P_{ac,r}^{3)}</math></b>	98,2 / 97,5 %

**MPP adaptation efficiency**

> 99,9 %

## PROTECTION DEVICES

<b>DC insulation measurement</b>	Yes
<b>Overload behaviour</b>	Operating point shift, power limitation
<b>DC disconnecter</b>	Yes
<b>Integrated string fuse holder</b>	Yes
<b>Reverse polarity protection</b>	Yes

## INTERFACES

<b>WLAN / Ethernet LAN</b>	Fronius Solar.web, Modbus TCP SunSpec, Fronius Solar API (JSON)
<b>6 inputs and 4 digital inputs/outputs</b>	Interface to ripple control receiver
<b>USB (type A socket) <sup>4)</sup></b>	Data logging, inverter update via USB flash drive
<b>2x RS422 (RJ45 socket) <sup>4)</sup></b>	Fronius Solar Net
<b>Signalling output <sup>4)</sup></b>	Energy management (floating relay output)
<b>Datalogger and web server</b>	Integrated
<b>External input <sup>4)</sup></b>	S0 meter connection / Evaluation of overvoltage protection
<b>RS485</b>	Modbus RTU SunSpec or meter connection