



# FRONIUS TAURO



## PRELIMINARY DATA

### TECHNICAL DATA FRONIUS TAURO - PRESERIES

INPUT DATA	FRONIUS TAURO 50-3-D FRONIUS TAURO 50-3-P	FRONIUS TAURO ECO 50-3-D FRONIUS TAURO ECO 50-3-P	FRONIUS TAURO ECO 100-3-D FRONIUS TAURO ECO 100-3-P
Number of MPP trackers	3	1	1
Max. input current ( $I_{dc \max}$ )	36 / 36 / 72 A	87,5 A	175 A
DC input voltage range ( $U_{dc \min} - U_{dc \max}$ )	200 - 1000 V	580 - 1000 V	580 - 1000 V
Feed-in start voltage ( $U_{dc \text{ start}}$ )	400 V	650 V	650 V
Usable MPP voltage range	400-930 V	580-930 V	580-930 V
Number of DC connections	D: 3/4/7 <sup>1)</sup> , P: 3 <sup>2)</sup>	D: 14/0/0 <sup>1)</sup> , P: 2 <sup>2)</sup>	D: 22/0/0 <sup>1)</sup> , P: 3 <sup>2)</sup>
Max. PV generator power ( $P_{dc \max}$ )		75kWp	150kWp

OUTPUT DATA	FRONIUS TAURO 50-3-D FRONIUS TAURO 50-3-P	FRONIUS TAURO ECO 50-3-D FRONIUS TAURO ECO 50-3-P	FRONIUS TAURO ECO 100-3-D FRONIUS TAURO ECO 100-3-P
AC nominal output ( $P_{ac,n}$ )	50,000 W	50,000 W	100,000 W
Max. AC output current ( $I_{ac \max}$ )		75 A	150 A
Grid connection (voltage range)	3- NPE 380/220V or 3- NPE 400/230V		
Frequency (Frequency range)	50 Hz / 60 Hz (45 - 65 Hz)		
Total harmonic distortion	< 3 %		
Power factor ( $\cos \phi_{ac,t}$ )	0 - 1 ind. / cap.		

GENERAL DATA	FRONIUS TAURO 50-3-D FRONIUS TAURO 50-3-P	FRONIUS TAURO ECO 50-3-D FRONIUS TAURO ECO 50-3-P	FRONIUS TAURO ECO 100-3-D FRONIUS TAURO ECO 100-3-P
Dimensions (height x width x depth)	644mm x 1038mm x 316mm		
Weight	93 kg	80 kg	105 kg
Degree of protection	Power electronics area: IP66 / DC connection area: IP66 / AC connection area: IP65		
Protection class	1		
Overvoltage category (DC / AC)	2 / 3		
Inverter concept	Transformerless		
Cooling	Regulated air cooling		
Installation	Indoor and outdoor installation		
Ambient temperature range	-40 - +65 °C		
Permitted humidity	0 to 100 % (condensing)		
DC connection technology	MC4 whips <sup>1</sup> , V-clamps <sup>2</sup>		
AC connection technology	V-clamps		
Certificates and compliance with standards	IEC62109-1:2010, IEC62109-2:2011, DIN V VDE 0126-1-1:2006		

EFFICIENCY	FRONIUS TAURO 50-3-D FRONIUS TAURO 50-3-P	FRONIUS TAURO ECO 50-3-D FRONIUS TAURO ECO 50-3-P	FRONIUS TAURO ECO 100-3-D FRONIUS TAURO ECO 100-3-P
Max. efficiency	98.2 %	98.5 %	98.5 %
European efficiency ( $\eta_{EU}$ )	97.4 / 97.8 / 97.5 %	98.2 / 98.0 / 97.5 %	98.2 / 98.0 / 97.5 %

PROTECTION DEVICES	FRONIUS TAURO 50-3-D FRONIUS TAURO 50-3-P	FRONIUS TAURO ECO 50-3-D FRONIUS TAURO ECO 50-3-P	FRONIUS TAURO ECO 100-3-D FRONIUS TAURO ECO 100-3-P
DC insulation measurement	Yes		
Overload behavior	Operating point shift, power limitation		
Reverse polarity protection	Yes		

<sup>1)</sup> direct <sup>2)</sup> precombined

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