



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 ¹⁾ , P: 3 ²⁾	D: 14/0/0 ¹⁾ , P: 2 ²⁾	D: 22/0/0 ¹⁾ , P: 3 ²⁾
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 ¹ , V-clamps ²		
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 (η_{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		

¹⁾ Preliminary Data ¹⁾ direct ²⁾ precombined

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