

FRONIUS TAURO

Hard shell, smart core.



System design flexibility



Max. performance up to 50°C



Direct sunlight



Optimizing costs



Active Double Wall Cooling



Power stage replacement

The three-phase Fronius Tauro ECO in the 99 kW power class promises maximum performance even under the harshest conditions. With its smart hardware design, it offers not just BOS cost optimization but unprecedented flexibility in system design. Simple installation and the fastest service on the market ensure maximum yield.

TECHNICAL DATA FRONIUS TAURO ECO

INPUT DATA	FRONIUS TAURO ECO 99-3-D	FRONIUS TAURO ECO 99-3-P
Number of MPP trackers		1
Max. input current ($I_{dc\ max}$)		175 A
Max. input current module field (PV1 / PV2 / PV3)	75 / 75 / 75 A	100 / 100 / - A
DC input voltage range ($U_{dc\ min} - U_{dc\ max}$)		580 - 1000 V
Feed-in start voltage ($U_{dc\ start}$)		650 V
Usable MPP voltage range ($U_{mpp\ min} - U_{mpp\ max}$)		580 - 930 V
Number of DC connections (PV1 / PV2 / PV3)	7 / 7 / 8	1 / 1 / -
Max. PV generator power ($P_{dc\ max}$)		150 kW _{peak}

OUTPUT DATA	FRONIUS TAURO ECO 99-3-D	FRONIUS TAURO ECO 99-3-P
AC nominal output ($P_{ac,r}$)		99,990 W
Max. output power		99,990 VA
AC output current ($I_{ac\ nom}$)		152 A
Grid connection ($U_{ac,r}$)		3~ NPE 400/230 V ; 3~ NPE 380/220 V
Frequency (frequency range $f_{min} - f_{max}$)		50 Hz / 60 Hz (45 - 65 Hz)
Power factor ($\cos\ \phi_{ac,r}$)		0 - 1 ind. / cap.

GENERAL DATA	FRONIUS TAURO ECO 99-3-D	FRONIUS TAURO ECO 99-3-P
Dimensions (height x width x depth)		755 x 1109 x 346 mm (without wall mount)
Weight		103 kg
Degree of protection		IP 65
Protection class		1
Night-time consumption		< 16 W
Cooling		Active cooling technology and double wall system
Installation		Indoor and outdoor ¹
Ambient temperature range		- 40 to + 65 °C ²
Certificates and compliance with standards ³	AS/NZS 4777.2:2020, IEC62109-1/-2, VDE-AR-N 4105:2018, IEC62116, EN50549-1:2019 & EN50549-2:2019, VDE-AR-N 4110:2018, CEI 0-16:2019, CEI 0-21:2019	

¹ Direct under the sun is possible

² Optional AC-disconnect mounted inside the inverter: from - 25 to + 65 °C

³ These are planned certificates. For the current certificates, please see www.fronius.com/tauro-cert

TECHNICAL DATA FRONIUS TAURO ECO

AC CONNECTION TECHNOLOGY	FRONIUS TAURO ECO 99-3-D	FRONIUS TAURO ECO 99-3-P
Cable cross section		70 - 240 mm ²
AC conductor material		Al and Cu
Connection terminals		Cable lug or V clamps
Single core option (single core cable)		Cable gland: 5 x M40
Multi core option (multi core cable)		Cable gland: 1 x multi core connection Ø 16 - 61.4 mm + 1 x M32
AC Daisy Chaining option (single core cable)		Cable gland: 10 x M32

DC CONNECTION TECHNOLOGY	FRONIUS TAURO ECO 99-3-D	FRONIUS TAURO ECO 99-3-P
Cable cross section	4 - 6 mm ²	25 - 95 mm ²
AC conductor material	Cu	Al and Cu
Connection terminals	DC direct connection Stäubli Multi Contact MC4	Cable lug or V clamps Cable gland: 6 x M40

EFFICIENCY	FRONIUS TAURO ECO 99-3-D	FRONIUS TAURO ECO 99-3-P
Max. efficiency		98.5 %
European efficiency (η _{EU})		98.2 %
MPP adaptation efficiency		> 99.9 %

PROTECTION DEVICES	FRONIUS TAURO ECO 99-3-D	FRONIUS TAURO ECO 99-3-P
DC disconnect		integrated
Overload behaviour		Operating point shift, power limitation
Reverse polarity protection		integrated
RCMU		integrated
DC insulation measurement		integrated
DC/AC surge protection		Type 1 + 2 integrated, Type 2 optional
DC string fusing	integrated, 15 A or 20 A	-

INTERFACES	FRONIUS TAURO ECO 99-3-D	FRONIUS TAURO ECO 99-3-P
Wi-Fi		Fronius Solar.web, Modbus TCP Sunspec, Fronius Solar API (JSON)
2x Ethernet LAN RJ45		10/100Mbit; max. 100m Fronius Solar.web, Modbus TCP Sunspec, Fronius Solar API (JSON)
USB (type A socket)		1A @5V max. ³
Wired Shutdown (WSD)		Emergency stop
2x RS485		Modbus RTU SunSpec meter/battery connection
6 digital inputs / 6 digital I/Os		Programmable interface for ripple control receiver, energy management, load control
Datalogger and Webserver		Integrated

³ for power supply only

/ Perfect Welding / Solar Energy / Perfect Charging

THREE BUSINESS UNITS, ONE GOAL: TO SET THE STANDARD THROUGH TECHNOLOGICAL ADVANCEMENT.

What began in 1945 as a one-man operation now sets technological standards in the fields of welding technology, photovoltaics and battery charging. Today, the company has around 5,440 employees worldwide and 1,264 patents for product development show the innovative spirit within the company. Sustainable development means for us to implement environmentally relevant and social aspects equally with economic factors. Our goal has remained constant throughout: to be the innovation leader.

Further information about all Fronius products and our global sales partners and representatives can be found at www.fronius.com

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