

Product advantages

- 01 Robust and durable
- 02 Lower costs and efficient servicing
- 0.3 Intelligent control and an open system
- 04 Design flexibility
- 05 Repairable and sustainable

Maximum flexibility in terms of system design with minimal overall system operating costs: the robust Fronius Tauro inverter makes large-scale PV systems even more cost-effective. Whether under direct sunlight or in extreme heat, its double-walled housing and active cooling enable full power and maximum yields even under the harshest environmental conditions. At the same time, the sturdy project inverter from Austria is quick to install and maintain

Fronius Tauro. Designed to perform.

The solution for large-scale PV systems









01 Robust and durable

Designed to buck direct sunlight and high temperatures: its double-walled housing and active cooling give the Fronius Tauro a long service life and make it a robust commercial solar inverter that will always deliver top performance.

02 Lower costs and efficient servicing

For minimal overall system operating costs: Fronius Tauro is quick to install and efficient to maintain. When servicing is required, only the affected power stage set needs to be replaced rather than the entire project inverter. This makes for safe operation and fast, cost-efficient servicing.

O3 Intelligent control and an open system

Like all Fronius products, Fronius Tauro can be conveniently monitored, controlled and maintained from a smartphone or PC. Fronius Solar.web lets you keep an eye on your system at all times. Its open system architecture means third-party components are easily integrated.

04 Design flexibility

Centralized, decentralized, vertical, or horizontal: Fronius Tauro offers you maximum flexibility in the design and installation of large-scale PV systems. The flexible Tauro and the cost-effective Tauro ECO can be combined in any way you choose. Preintegrated surge protection device and AC daisy chaining reduce the need for additional components and cables.

D5 Repairable and sustainable

Fronius Tauro shows that sustainability at every stage of the product cycle pays dividends. The project inverter is designed for durability and was developed and produced in Austria with the fewest possible, replaceable components. This makes the Tauro particularly robust and failure-resistant, and means that only individual parts need to be replaced during on-site servicing, thereby saving time and conserving resources.



Fronius Tauro is available in two versions:

- Fronius Tauro | 50 kW | 3 MPP trackers
- Fronius Tauro ECO | 50, 99.99 and 100 kW | 1 MPP tracker

				Taura				Taure			
	Number of MPP trackers		Tauro 3			Tauro ECO			1		
Input data	Max. input current (I _{dc max})	A	134			87.5		1		1 175	
	Max. short circuit current	A	240			178		175 250		250	
	(Isc max, inverter) DC input voltage range (Udc min - Udc max)	V	200 - 1000		580 - 1000		580 - 1000		580 - 1000		
	Feed-in start voltage (Udc start)	V	200		650		650		650		
	Usable MPP voltage range	-									
	(Umpp min - Umpp max) 1	V	400 - 870		580 ² - 930		580 ² - 930		580 ² - 930		
	Max. PV generator power (P _{dc max})	kWp	75		75		150		150		
			PV1	PV2	PV3	PV1	PV2	PV1	PV2	PV1	PV2
	Max. input current module array (I _{dc max. pv)}	А	36	36	72	75	75	100	100	100	100
	Max. module array short circuit current $(I_{SC} pv)^3$	А	72	72	125	125	125	125	125	125	125
	Number of DC connections		1	1	1	1	1	1	1	1	1
	AC rated output (Pac,r)	W	50.000 50.000 99.990 100.0					.000			
D	Max. output power	VA	50.000			000		990		.000	
dat	Tiaki satpat pono.						400VAC				400 VAC
t t	Rated AC output current (I _{ac, r})	А	75,8		72,5	75,8	72,5	151,5	144,9	151,5	144,9
Output data	Grid connection (U _{ac.r})	V	,	3~ (N)PE 400/230; 3~ (N)PE 380/220							
	Frequency (frequency range f _{min} - f _{max})	Hz	50 / 60 (45 - 65)								
	Power factor (cos φ _{ac,r})		0 - 1 ind. / cap.								
General data	Dimensions (height x width x depth)	mm	755 × 1109 × 346 (without wall mount)								
	Weight	kg	92		74 VICTOR			103 103).3	
	Degree of protection	1,9	IP 65		IP 65		IP 65		IP 65		
	Protection class		1		1		1		1		
	Night-time consumption	W	< 16		< 16		< 16		< 16		
	Cooling		Active Cooling Technologie and Double-Wall System								
en	Installation		Indoor and outdoor 4								
G	Ambient temperature range	°C	-40 to +65 °C ⁵								
	Certificates and compliance with standards ⁶		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						I		
	Life cycle analysis			For Tauro ECO 100 in accordance with Austrian standards ÖNORM EN ISO 14040 and 14044 (verified by Fraunhofer IZM)							
	Cable cross section	mm²	3	35 - 240	0	35 -	240	70 -	240	70 -	240
ogy	AC conductor material		00 240			Al and Cu					
Jor	Connection terminals		Cable lug or V clamps								
chi	Single Core Option (single core cable)		Cable gland: 5 x M40 (10 - 28 mm)								
te	Multi Core Option (multi core cable)		Cable gland: 1 x multi core connection Ø 16 - 61.4 mm + 1 x M32								
ion	AC Daisy Chaining Option		Cable gland: 10 x M32 (10 - 25 mm)								
ect	(single core cable)	m m 2	· · · · ·								
Connection technology	Cable cross section DC conductor material	mm²	25 - 95 Al and Cu								
	Connection terminals		Cable lug or V clamps Cable gland: 6 x M40 (10 - 28 mm)								
Efficiency	Max. efficiency	%		98.5		98	3.5	98	3.5	98	3.5
	European efficiency (ηEU)	%		98.3			3.2		3.2		3.2
	MPP-adaptation efficiency	%	:	> 99.9		> 99		> 99		> 99	
				23.0							

 $^{^{}m 1}$ The usable MPP voltage range is identical to the MPP voltage range at rated power

 $^{^{\}mathbf{2}}$ At 230 V actual mains voltage; design recommendation (Umpp min): 600 V

 $^{^{3}}$ Isc pv = Isc max. ≥ Isc (STC) x 1.25 according to e.g. IEC 60364-7-712, NEC 2020, AS/NZS 5033:2021.

^{*}Direct sunlight is possible

⁵ Optional AC disconnector installed in inverter: from -30 to +65°C

⁶ These are planned certificates. For the current certificates, please see www.fronius.com/tauro-cert

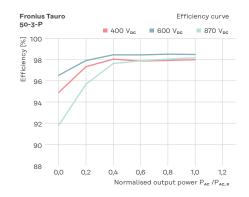
		Tauro		Tauro ECO						
		50-3-P	50-3-P	99-3-P	100-3-P					
rotection devices	DC disconnector		integrated							
	RCMU		integrated							
	DC insulation measurement		integrated							
P.	DC/AC surge protection		Type 1 + 2 integrated 7, Type 2 optional							
Interfaces	Wi-Fi	Fronius Sola	Fronius Solar.web, Modbus TCP Sunspec, Fronius Solar API (JSON)							
	Ethernet LAN RJ45 ⁸	Fronius Sola	10/100 Mbit; max. 100 m Fronius Solar.web, Modbus TCP Sunspec, Fronius Solar API (JSON)							
	Wired Shutdown (WSD)		Emergency stop							
	2 x RS485		Modbus RTU SunSpec							
	6 digital inputs / 6 digital I/Os	Pro	Programmable interface for ripple control receiver, energy management, load control							
	Datalogger and web server ⁸		Integrated							

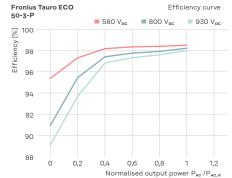
⁷ Typ 1 + 2: Iimp kA

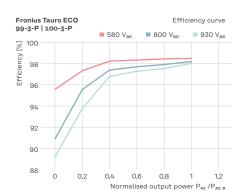
Measurably better

The performance speaks for itself: Fronius Tauro delivers impressive performance, with constant efficiency and maximum output at temperatures up to 50 °C.

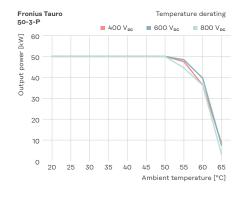
Efficiency

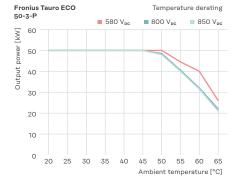


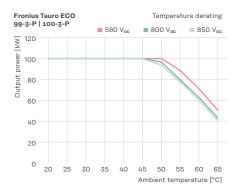




Power derating







For more information about the product, visit: www.fronius.com/tauro

⁸ An Ethernet Y connector is used to facilitate communication with multiple inverters. Each inverter communicates with the network/internet independently via its own integrated datalogger.