



Designed to perform.

Product advantages

- 01 Robust and durable
- 02 Lower costs and efficient servicing
- 03 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



02



03



04



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.

03 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

Centralised, decentralised, 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. Pre-integrated surge protection device and AC daisy chaining reduce the need for additional components and cables.

05 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

Technical data

Fronius Tauro. Designed to perform.

			Tauro			Tauro ECO								
			50-3-D			50-3-D		99-3-D			100-3-D			
Input data	Number of MPP trackers		3			1		1			1			
	Max. input current (I _{dc max})	A	134			87.5		175			175			
	Max. input current string (I _{dcmax, string})	A	14.5			14.5		14.5			14.5			
	Max. short circuit current (I _{sc max, inverter})	A	240			178		365			365			
	DC input voltage range (U _{dc min} - U _{dc max})	V	200 - 1000			580 - 1000		580 - 1000			580 - 1000			
	Feed-in start voltage (U _{dc start})	V	200			650		650			650			
	Usable MPP voltage range (U _{mpp min} - U _{mpp max})	V	400 - 870			580 - 930		580 - 930			580 - 930			
	Max. PV generator power (P _{dc max})	kWp	75			75		150			150			
			PV1	PV2	PV3	PV1	PV2	PV1	PV2	PV3	PV1	PV2	PV3	
	Max. input current module field	A	36	36	72	75	75	75	75	75	75	75	75	
	Max. short circuit current	A	72	72	125	125	125	125	125	125	125	125	125	
	Number of DC connections		4	3	7	7	7	7	7	8	7	7	8	
Output data	AC nominal output (P _{ac,r})	W	50.000			50.000		99.990			100.000			
	Max. output power	VA	50.000			50.000		99.990			100.000			
	AC output current (I _{ac nom})	A	76			76		152			152			
	Grid connection (U _{ac,r})	V	3~ NPE 400/230; 3~ NPE 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		103			103			
	Degree of protection		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											
	Installation		Indoor and outdoor ¹											
	Ambient temperature range	°C	-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											
Connection technology	AC	Cable cross section	mm ²	35 - 240			35 - 240		70 - 240			70 - 240		
		AC conductor material		Al and Cu										
		Connection terminals		Cable lug or V clamps										
		Single Core Option (single core cable)		Cable gland: 5 x M40 (10 - 28 mm)										
		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 (10 - 25 mm)										
	DC	Cable cross section	mm ²	4 - 6										
		AC conductor material		Cu										
Connection terminals			DC-direct connection Stäubli Multi Contact MC4											
Efficiency	Max. efficiency	%	98.5			98.5		98.5			98.5			
	European efficiency (η _{EU})	%	98.3			98.2		98.2			98.2			
	MPP-adaptation efficiency	%	> 99.9			> 99.9		> 99.9			> 99.9			

¹ Direct sunlight is possible

² Optional AC-disconnect mounted inside the inverter: from -30 to +65 °C

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

			Tauro	Tauro ECO		
			50-3-D	50-3-D	99-3-D	100-3-D
Protection devices	DC disconnector		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 ⁴ , Type 2 optional			
	DC string fusing		integrated, 15 A or 20 A			
Interfaces	Wi-Fi		Fronius Solar.web, Modbus TCP Sunspec, Fronius Solar API (JSON)			
	Ethernet LAN RJ45 ⁶		10/100 Mbit; max. 100 m Fronius Solar.web, Modbus TCP Sunspec, Fronius Solar API (JSON)			
	USB (type A socket)		1A @ 5V max. ⁵			
	Wired Shutdown (WSD)		Emergency stop			
	2 x RS485		Modbus RTU SunSpec			
	6 digital inputs / 6 digital I/Os		Programmable interface for ripple control receiver, energy management, load control			
	Datalogger and Webserver ⁶		Integrated			

⁴ Typ 1 + 2: Iimp 5kA

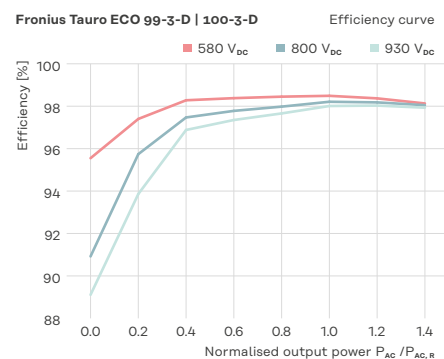
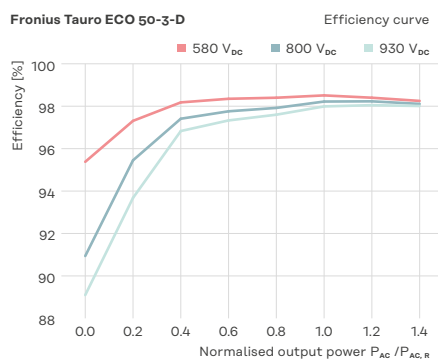
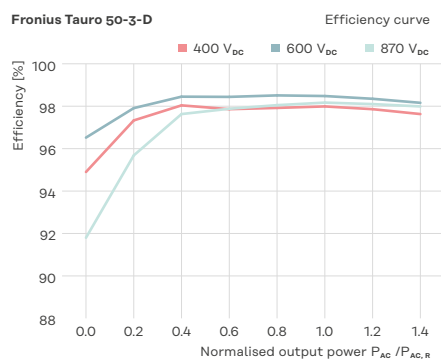
⁵ For power supply only

⁶ An Ethernet star-configuration is used for communication with multiple inverters. Each individual inverter communicates independently with the network/Internet via its integrated data logger

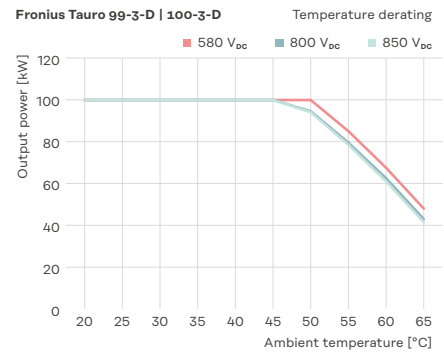
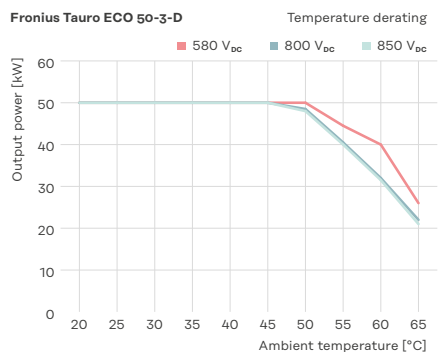
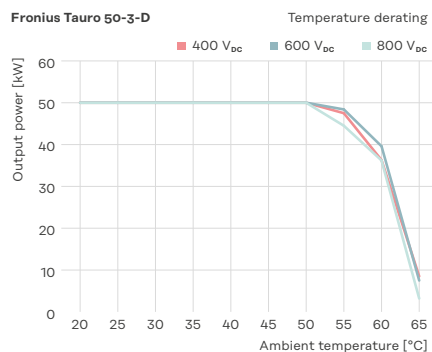
Measurably better

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

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