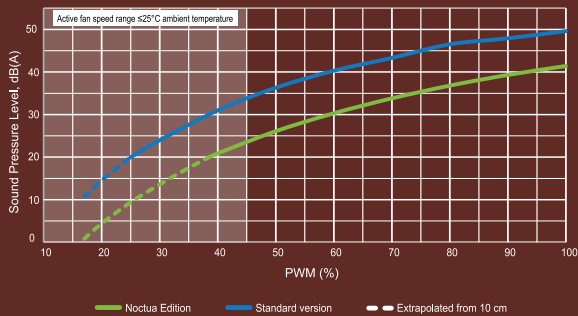# Seasonic
PRIME TX-1600
Noctua Edition
Ultra-quiet fully modular power supply

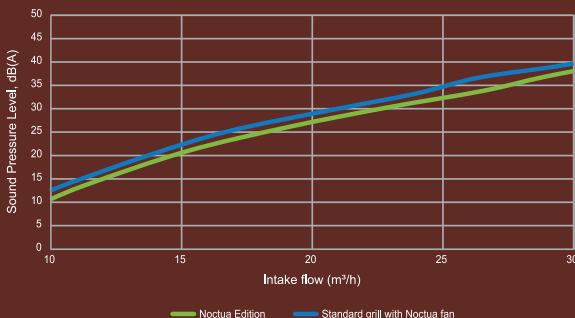## How much quieter is the Noctua Edition of the Seasonic PRIME TX-1600?

The key to the Noctua Edition's further improved acoustic performance is Noctua's renowned NF-A12x25 120mm fan: Ensuring the same safe operating temperature of all internal components, it runs another ~8-10dB(A) quieter than the regular model's already quiet 135mm fan across the entire fan speed range.

Seasonic PRIME TX-1600 acoustics: standard version vs. Noctua Edition

This massive improvement is mainly due to the superior performance-to-noise efficiency of the award-winning Noctua NF-A12x25 120mm fan as compared to the regular model's 135mm unit. However, the Noctua Edition's custom-designed, highly optimised fan grill also contributes to its superior acoustic performance, with around 2dB(A) lower noise levels at the same flow performance.

Seasonic PRIME TX-1600 Noctua Edition fan grill performance (flow normalised)

Designed in Austria, Noctua's premium cooling components are internationally renowned for their superb quietness, exceptional performance and thoroughgoing quality. Having received more than 6000 awards and recommendations from leading hardware websites and magazines, Noctua's fans and heatsinks are chosen by more than a hundred thousand satisfied customers around the globe.

Seasonic is renowned as one of the leading manufacturers of premium grade PC power supplies and PRIME TX is their award-winning, 80 PLUS® Titanium certified flagship series featuring state-of-the-art electronic designs, first-class quality components, cutting-edge performance and exceptional efficiency. The Noctua Edition of the top-end TX-1600 model uses this superb platform and combines it with the iconic, groundbreaking NF-A12x25 fan as well as a custom designed, highly optimised fan grill, which enable it to run ~8-10dB(A) quieter than the already quiet standard model. Thanks to its semi-passive fan control setup, the TX-1600 Noctua Edition will operate fully passive up to around 50% load at typical ambient temperatures (≤25°C) and only start ramping up the fan slowly as the load or temperature levels increase. This makes it a fantastic choice not only for power-hungry high-end builds, but also for silent systems that do not require as much as 1600W and will therefore have the PSU running mostly with the fan switched off or at near-inaudible speed levels. Even at 100% load, the Noctua Edition runs whisper quiet at ambient temperatures up to 25°C, producing only ~24dB(A) versus ~34dB(A) for the regular model. This massive reduction in noise emission is reflected in an upgrade of Cybenetic's Lambda average noise level score from A to A++. Topped off with ATX 3.1 and PCIe 5.1 support as well as fully modular, Noctua-themed cables, the Seasonic PRIME TX-1600 Noctua Edition is the ultimate choice for highly demanding PC enthusiasts who require uncompromising quality, class-leading performance and exceptional quietness of operation.

Award-winning performance
Awarded best power supply series by the European Hardware Association in 2023 and having received countless recommendations from expert testers around the world, the PRIME TX series is a testament to Seasonic's decades of experience in engineering PC power supplies for the highest demands.

Cybenetics Lambda A++ sound level rating
In Cybenetics acoustic tests, the regular PRIME TX-1600 model was already very quiet with a Lambda A rating and an average noise output of only ~21 dB(A). The Noctua Edition further improved on this excellent result with a further ~8 dB(A) reduction and an average noise level of ~13 dB(A), which led to an upgrade from Lambda A to a Lambda A++ classification.

Model	PRIME TX-1600 (ATX 3.1)
Safety Model Name	SSR-1600TR² NE
Intel Specifications	ATX 12 V / EPS 12 V
Dimensions	210 mm (L) x 150 mm (W) x 86 mm (H)
Efficiency	80 PLUS® Titanium / ENERGY STAR® / ErP Lot 6 2013 compliant
Protection Features	OPP / OVP / UVP / SCP / OCP / OTP
Hazardous Materials	RoHS-5
AC Input Range	100–240 Vac 15–10 A 50–60 Hz α200-240 Vac 10 A 50-60 Hz适用于中国地区 and For Korea

DC Output Voltage	+3.3 V	+5 V	+12 V	-12 V	+5 Vsв
Maximum Load	25 A	25 A	133.33 A	0.5 A	3 A
Combined Load	125 W		1600 W	6 W	15 W
Total Output	1600 W 115–240 Vac, 1300 W 100–240 Vac				

Cable Type	Number of Cables	Connectors per Cable	Total Length
Motherboard	1	1 (20 + 4 Pins)	610 mm
CPU (ATX 12 V / EPS 12 V)	3	1 (4 + 4 Pins)	700 mm
PCIe	6	1 (6 + 2 Pins)	750 mm
SATA	4	4	950 mm
SATA 3.3V	1	2	550 mm
Molex	1	3	690 mm
12V-2x6	2	1 (12+4 Pins to 12+4 Pins)	700 mm