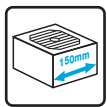




Introduction

FSP HYDRO Ti PRO series features 12VHPWR Connector and complies ATX 3.0 with PCIe 5.0 is fully modular low noise power supplies with 150mm length deliver up to 1000W and high efficiency 80 Plus® Titanium power to your PC build. With the half-bridge LLC topology circuit design and 450V, 105°C Japanese main bulk capacitors, PC parts receive premium power input from HYDRO Ti PRO series power supplies. Besides, for demanding PC upgrades, you can have all the connections needed from HYDRO Ti PRO series power supplies.

Features



High Power Density
Compact yet powerful.



LLC Half-Bridge Topology



450V, 105°C Japanese Bulk Capacitors
Reliable power and prolonged life span



Quiet and Durable Cooling
FDB(Fluid Dynamic Bearing) fan with low noise and long-lasting life span



Fully Modular Design
Easy to install and can significantly reduce cable clutter in the case.

- Complies with ATX12V V3.0 & EPS12V V2.92
- Efficiency $\geq 94\%$ @ typical load
- Active PFC ≥ 0.9
- 450V, 105°C Japanese bulk capacitors
- Japanese electrolytic capacitors
- Industrial-grade design with conformal coating application
- +12V single-rail design
- +5V & 3.3V DC to DC module design
- Eco semi-fanless fan control switch
- 135mm fluid dynamic bearing (FDB) fan
- Fully modular cabling design
- Black flat cables
- Complete protection: OCP/OVP/OPP/SCP/OTP

Product Overview

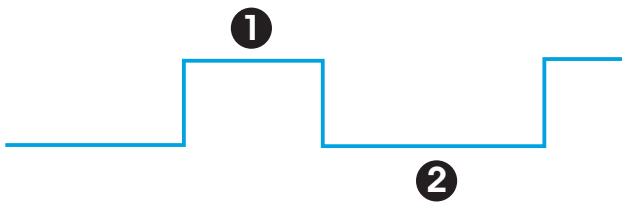
New ATX PSU Specifications

Updated ATX 3.0 specifications for the next-generation hardware power demands.

Unleash the full power:

Deliver power excursion 200% of PSU size

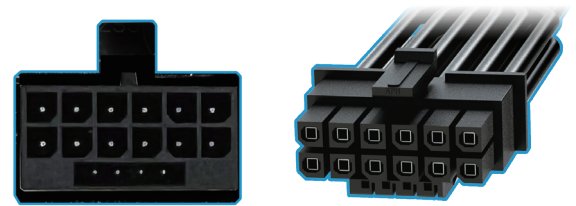
To get the best possible performance from the next-gen PCIe 5 desktop graphics cards and the processors.



- ① Peak Power: 2000W ;
- ② Time for Power Excursion: 100 μ s
Constant Power: 817W ; Time Constant: 900 μ s
*1000W PSU for example.

A New 12VHPWR Connector

The PCIe Gen 5 (12+4) pin connector and the 12+4 pin cable.



- * Rated current up to 9.2A per contact with all 12 power contacts
- * Fully isolated terminals
- * The 12VHPWR connector that uses 16AWG wires.

High Power Density – Up to 1000W in 150mm case

Compared to general high-efficiency & high wattage PSU 170mm length, this series delivers high power with shorter size of 150mm.



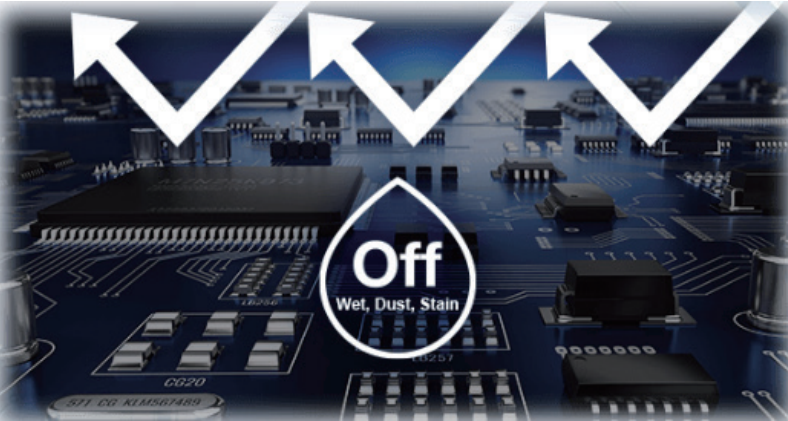
150mm



Eco Semi-fanless Fan Control Switch

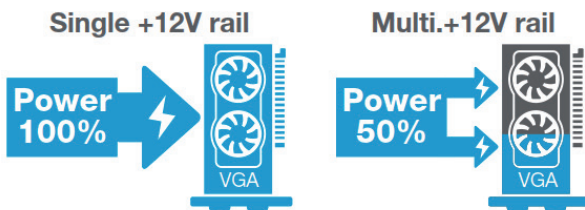
Under 50% loading, you will enjoy Zero RPM experience when eco semi-fanless fan control switch is on, and get the benefit of long lifespan from a 135mm fluid dynamic bearing fan.

Product Overview



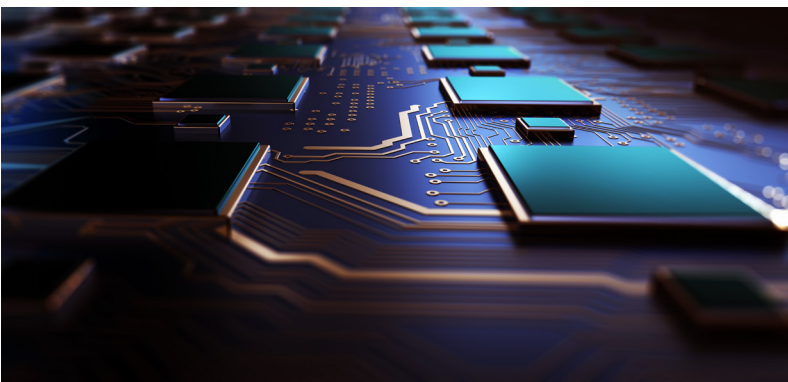
Off-Wet, Off-Dust and Off-Stain

The Hydro Ti PRO series is covered with a conformal coating which protects it from dust, stains, and humidity. It's guaranteed to offer better and reliable performance in harsh environments and is tested to work in environments up to 95% relative humidity.



Unleash +12V Power Output

VGA card is a power-hungry component that needs most power. A single +12V rail design can deliver stable power and avoid any overloading conditions.



Half-bridge LLC Topology

The half-bridge LLC topology allows for zero voltage switching of the main switches thereby dramatically lowering switching losses and boosting efficiency.

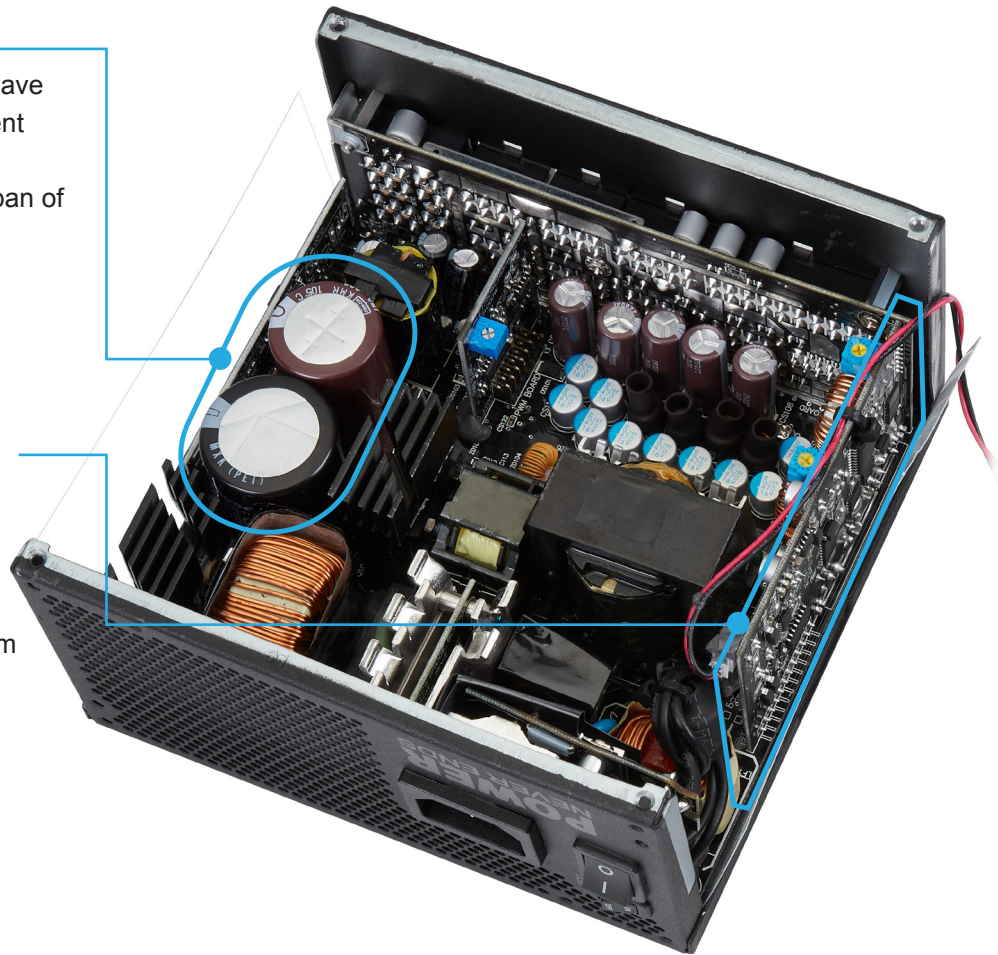
Product Overview

450V, 105°C E-capacitors

450V, 105°C Japanese E-capacitors have better quality, protecting your equipment from the infamous capacitor leakage problem and also increasing the life-span of your equipment.

3.3V & 5V DC-DC Module Design

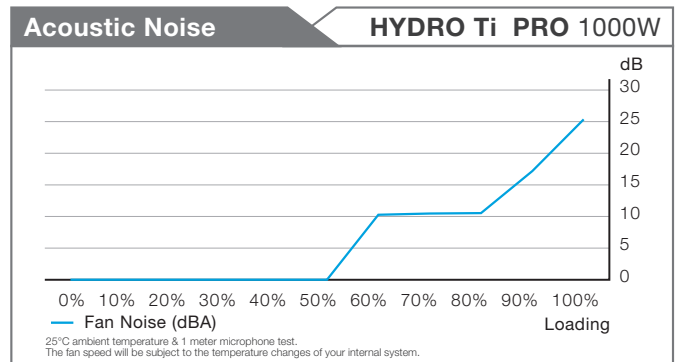
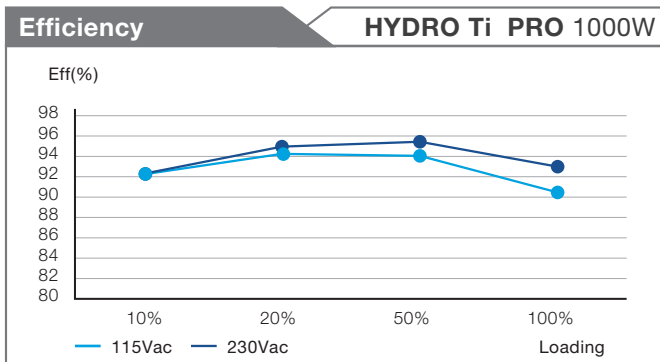
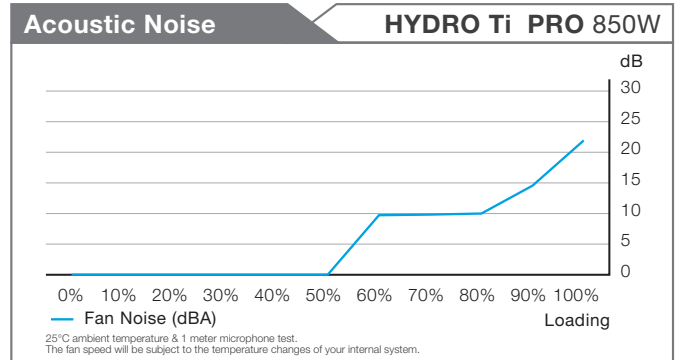
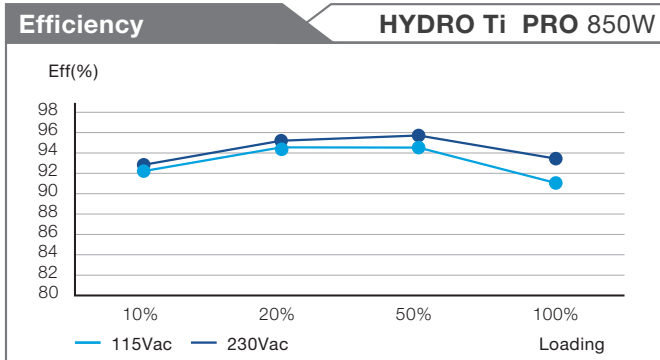
DC to DC modules to improve the reliability, and enable greater compatibility with low ripple noise to effectively reduce interference of system components, prolonging system lifetime.



Changeable Side Sticker

Includes unique side stickers for DIY enthusiasts and gamers.

Performance



Rating

850W

AC Input 交流输入	100-240V~ 11-5.5A 50-60Hz (Not for China, Korea)				
	200-240V~ 5.5A 50-60Hz (Only for China, Korea)				
DC Output ≡ 直流输出	+3.3V	+5V	+12V	-12V	+5Vsb
Max Output Current 最大电流	20A	20A	70.83A	0.3A	3A
Max Combined Power 最大功率	120W		850W	18.6W	
Total Power 额定功率	850W				

1000W

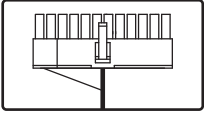
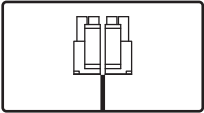
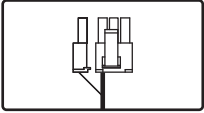
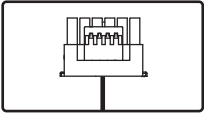
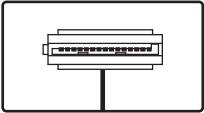
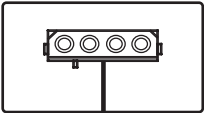
AC Input 交流输入	100-240V~ 13-6A 50-60Hz (Not for China, Korea)				
	200-240V~ 6A 50-60Hz (Not for China, Korea)				
DC Output ≡ 直流输出	+3.3V	+5V	+12V	-12V	+5Vsb
Max Output Current 最大电流	20A	20A	83.33A	0.3A	3A
Max Combined Power 最大功率	120W		1000W	18.6W	
Total Power 额定功率	1000W				

Specifications



	850W	1000W
Model	HTI-850M	HTI-1000M
Type	ATX	ATX
PFC	Active PFC	Active PFC
Input Voltage	100-240V ; 200-240V	100-240V ; 200-240V
Input Current	11-5.5A ; 5.5A	13-6A ; 6A
Input Frequency	50-60Hz	50-60Hz
Output Capacity	850W	1000W
Max. Output Power	850W	1000W
Fan Type	FDB fan, 135mm	FDB fan, 135mm
Efficiency	94%	94%
MTBF	100,000 Hrs	100,000 Hrs
Protection	OCP,OVP OPP, SCP, OTP	OCP,OVP OPP, SCP, OTP
Dimension(L×W×H)	150×150×86 mm	150×150×86 mm
Warranty	10 years	10 years
Additional Information		

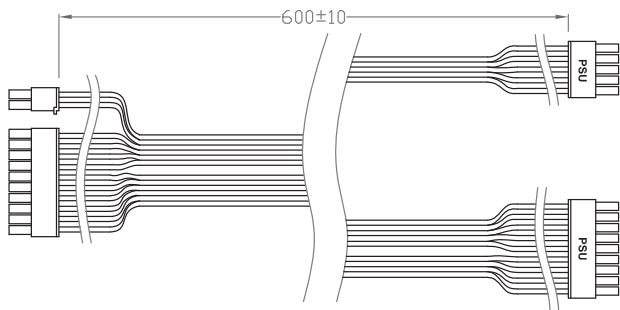
Connectors

	850W	1000W
 MB 20+4 PIN	1	1
 CPU 4+4 PIN	2	2
 PCIe 6+2 PIN	5	5
 PCIe 12+4 PIN	1	1
 SATA	12	12
 MOLEX	4	4

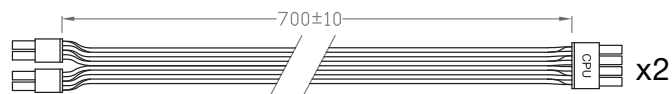
Cable Length

850W/1000W

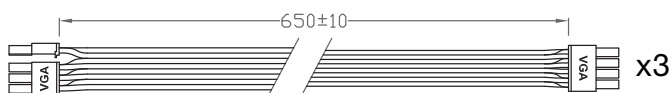
Motherboard



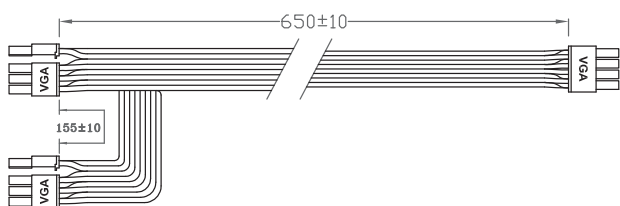
CPU



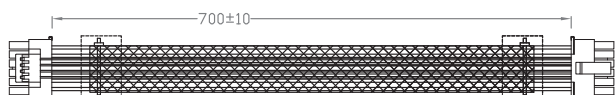
PCIe 6+2 Pin



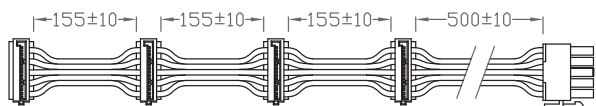
PCIe 6+2 Pin



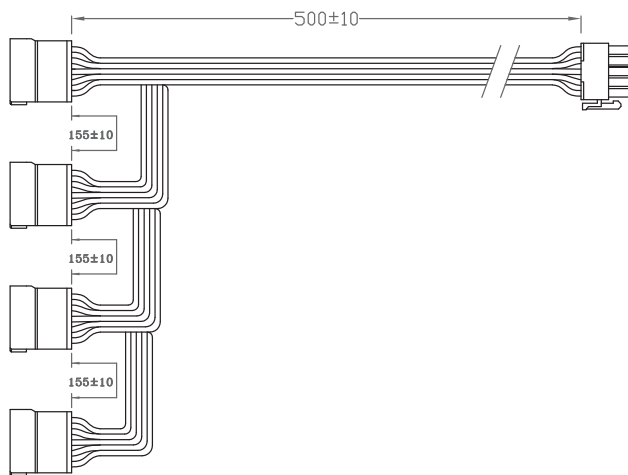
PCIe 12+4 Pin



SATA



SATA



SATA / MOLEX

