



Introduction

Hydro GT PRO series features 12VHPWR connector and conforms to the latest ATX12V V3.0 supporting the newest generation Intel PC platform.

With 80 PLUS® Gold certificate, over 90% high energy conversion can less heat and LLC topology 450V, 105°C Japanese main capacitors make HYDRO GT PRO series a perfect solution for the most extremely harsh working environment. Besides, enjoy zero dBA in light loading from the semi-fanless fan control design. HYDRO GT PRO series eliminates the problem of dealing with the cables, thanks to its semi-modular design and the all-black ribbon cables that give PC builds a clean look.

Features

- 
LLC Topology
 To optimize the power conversion efficiency and reduce noise and EMI generation.
- 
450V, 105°C Japanese Main Capacitors
 Durable main capacitors provide superior reliability under intense current operation environment.
- 
Semi-fanless with 120mm FDB Fan
 Get the benefit of silence, low noise, and long lifespan from the design.
- 
+12V Single Rail Design
 Designed for power-intensive VGA cards. Provides strong power to any overloading condition.
- 
DC to DC Module Design
 Providing high efficient, stable power.

- Complies with ATX12V V3.0 & EPS12V V2.92
- Efficiency $\geq 90\%$ @ typical load
- Active PFC ≥ 0.9
- Hold up time > 17ms @ 80% load
- 450V, 105°C Japanese main capacitors
- Japanese electrolytic capacitors
- +12V single-rail design
- +5V & 3.3V DC to DC module design
- Eco semi-fanless fan control switch
- 120mm fluid dynamic bearing (FDB) fan
- Semi-modular with black flat cables
- Complete protection: OCP/OVP/OPP/SCP/OTP

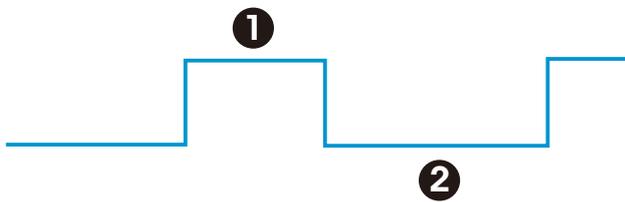
Product Overview

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.



- ❶ Peak Power: 2000W ;
- ❷ 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.

Product Overview

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.

450V, 105°C Japanese Main Capacitors

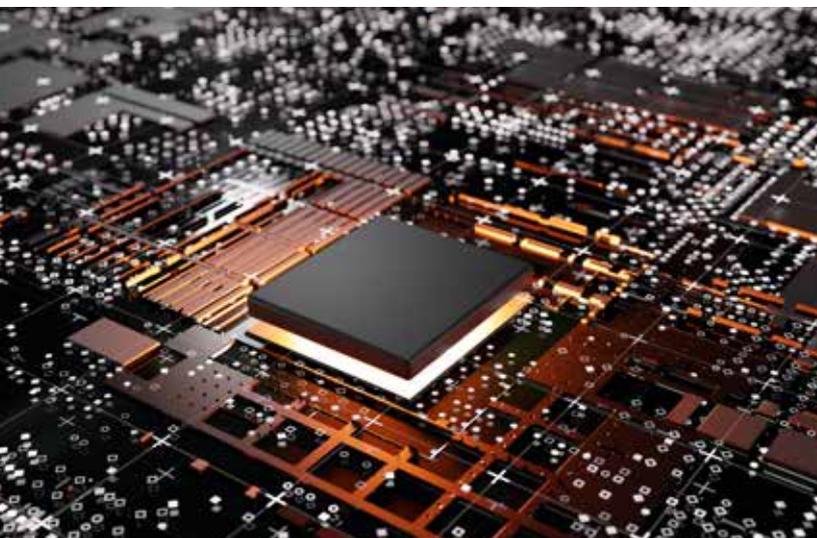
450V, 105°C Japanese main capacitors have better quality, protecting your equipment from the infamous capacitor leakage problem and also increasing the life-span of your equipment.

Semi-fanless with 120mm FDB Fan

Under 30% loading, you will enjoy 0 dBA experience when eco semi-fanless fan control switch is on, and get the benefit of long lifespan from a 120mm fluid dynamic bearing fan.



The eco semi-fanless fan control switch



LLC Topology

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

Product Overview



Custom DC-DC Module

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.

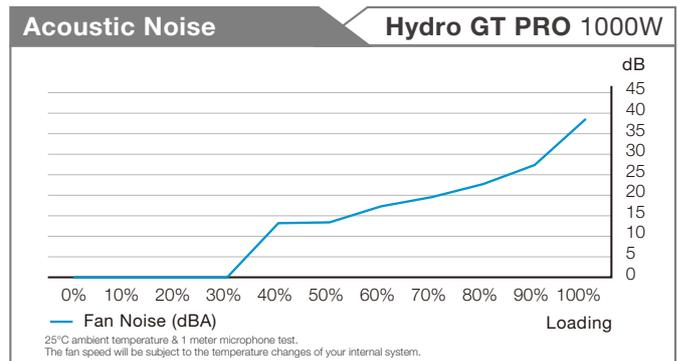
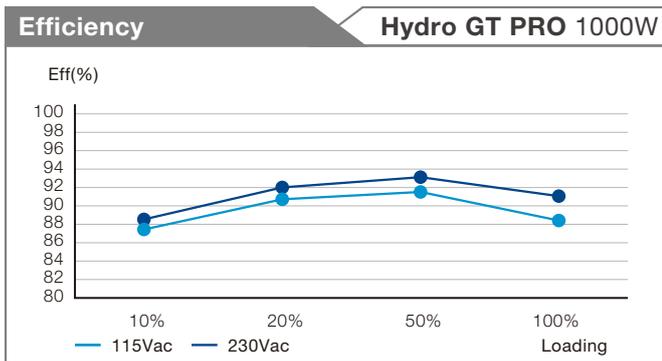
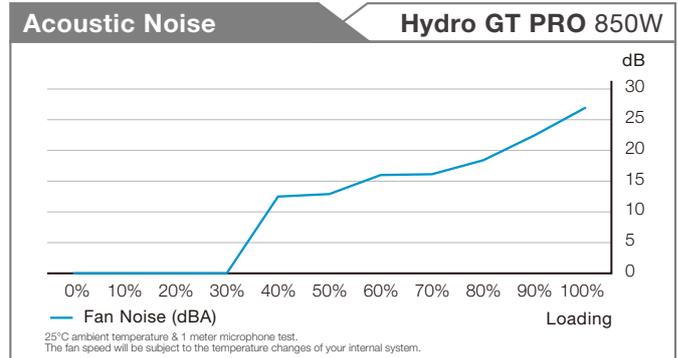
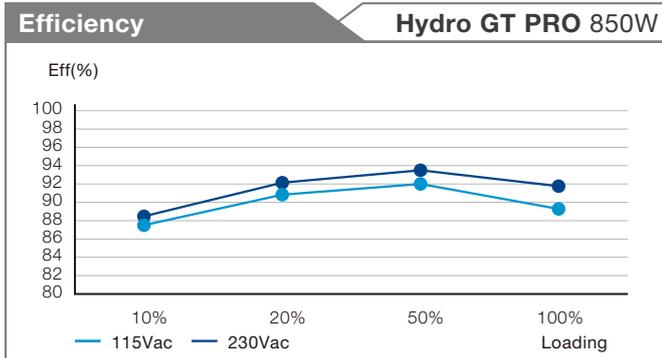
Dual CPU Power Connectors

Support high-end motherboards, and deliver stable power to the CPU.

Black Flat Cable

The all black flat cables gives it a stylish and quality look.

Performance



Rating

850W

AC Input 交流输入	100-240V~ 11-5.5A 50-60Hz (Not for China)				
	200-240V~ 5.5A 50-60Hz (Only for China)				
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	2.5A
Max Combined Power 最大功率	120W		850W	3.6W	12.5W
Total Power 额定功率	850W				

1000W

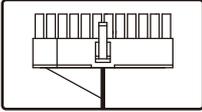
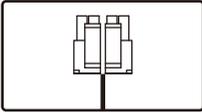
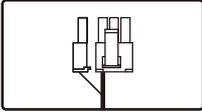
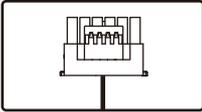
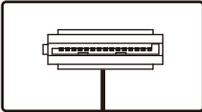
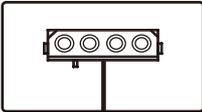
AC Input 交流输入	100-240V~ 12-6A 50-60Hz (Not for China)				
	200-240V~ 6A 50-60Hz (Only for China)				
DC Output 直流输出	+3.3V	+5V	+12V	-12V	+5Vsb
Max Output Current 最大电流	20A	20A	83.33A	0.3A	2.5A
Max Combined Power 最大功率	120W		1000W	3.6W	12.5W
Total Power 额定功率	1000W				

Specifications



	850W	1000W
Model	HGT-850	HGT-1000
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	12-6A ; 6A
Input Frequency	50-60Hz	50-60Hz
Output Capacity	850W	1000W
Max. Output Power	850W	1000W
Fan Type	FDB fan, 120mm	FDB fan, 120mm
Efficiency	90%	90%
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	7 years	7 years
Additional Information		

Connectors

	850W	1000W
 <p>MB 20+4 PIN</p>	1	1
 <p>CUP 4+4 PIN</p>	2	2
 <p>PCI-e 6+2 PIN</p>	4	4
 <p>PCIe 12+4 PIN</p>	1	1
 <p>SATA</p>	10	10
 <p>MOLEX</p>	2	2

Cable Length

850W / 1000W

