

HIGH CURRENT
GAMER

HCG

FULLY MODULAR POWER SUPPLY 650W



The latest generation of High Current Gamer Gold power supplies offer unparalleled stability and 80 PLUS® Gold-certified efficiency, thanks to the top-grade Japanese capacitors and Active PFC. Advanced thermal control with the Zero RPM mode enables optimal balance between silence and cooling, and a quiet 120 mm fluid dynamic bearing fan completes the package. The CircuitShield™ suite of industrial-grade protections ensures that the power delivered to your system is safe and reliable in any environment. If loads of power, high-level engineering and extreme efficiency are what you're after, the High Current Gamer Gold series is the winner.

80 PLUS®
GOLD80 PLUS®
Gold Certified92%
MAX. EFFICIENCY

Energy Efficiency

CONTINUOUS
POWER

Stable Output

DC
DCDC to DC
Converter Design

100%

100% Japanese
Heavy-Duty Caps

100%

Fully-Modular

COMPACT SIZE
140mm

Compact Size

High-performance Japanese capacitors ensure the tightest DC stability and regulation, for reliability that you and your system can count on.



A server-class full-bridge LLC design.

PhaseWave™ Design: synchronous rectification based on a DC-DC topology.

Antec Quality
10 Year Warranty

Reliability You Can Count On: We stand by the quality and safety of the HCG Gold series Power Supplies, offering a 10-year parts and labor warranty and unlimited access to our incomparable technical support and customer service.

120mm FDB FAN

The whisper-quiet, fluid-dynamic bearing fan provides high airflow with the durability and longevity that is a signature of Antec quality.



Zero RPM Mode

The HCG Gold series is equipped with the Zero RPM fan mode, which uses thermal sensors to activate the fan only when you need it. With Zero RPM mode, the HCG Gold series works hard - and smart.

FULLY MODULAR CABLE
MANAGEMENT SYSTEM

Allows you to use only the cables you need, which greatly simplifies installation and helps clear out space.

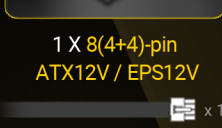


CONNECTORS

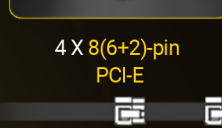


1x 24pin

610mm x 1

1 X 8(4+4)-pin
ATX12V / EPS12V

650mm x 1

4 X 8(6+2)-pin
PCI-E

675mm x 75mm x 2



8 x SATA

450mm 120mm 120mm 120mm x 2



3 x Molex

450mm 120mm 120mm x 1



1 x FDD

101mm x 1

PowerCache™

An extra capacitor located at the ends of 12V cables store power, preventing brownouts from sudden demand spikes - providing an extra power reserve where you need it, when you need it most.



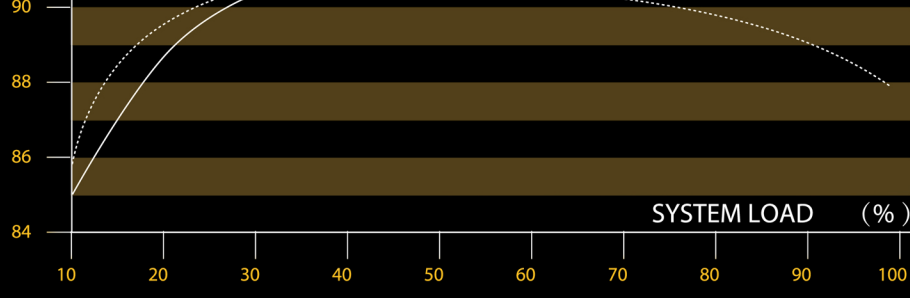
Net Weight: 2.04kgs
Gross Weight: 3.36kgs

140 mm
(5.5")86 mm
(3.4")150 mm
(5.9")COMPACT FORM
FULL-SIZE
PERFORMANCE

Push your system to the limit with peace of mind

AC Input	100-240VAC, 50Hz-60Hz, 9A-4.5A				
DC Output	+ 3.3V	+ 5V	+ 12V	-12V	+ 5VSB
Maximum	20A	20A	54A	0.3A	3.0A
Combined	100W		648W	3.6W	15W
Total Output	650W				

80 PLUS® GOLD CERTIFIED - Up to 92% efficient



SPECIFICATIONS

- > 650W Continuous Power - Guaranteed 650W of Continuous Power
- > Fully modular cable management - Use only the cables you need
- > 80 PLUS® GOLD certified - Up to 92% efficient, to reduce your electricity bill
- > PhaseWave™ Design - A server-class full-bridge LLC design with a synchronous rectification based on a DC-DC topology
- > AQ10 - Antec Quality 10-year warranty
- > 120 mm FDB Fan - Whisper-quiet high-quality fan with long lifetime
- > Zero RPM fan mode, which uses thermal sensors to activate the fan only when you need it
- > 4x PCI-E connectors for multiple GPU support
- > 100% Japanese Capacitors - High-performance capacitors ensure tightest DC stability and regulation
- > 99% +12V - Output for maximum CPU & GPU support
- > CircuitShield™ - Full suite of industrial grade protections: Over Current Protection (OCP), Over Voltage Protection (OVP), Short Circuit Protection (SCP), Over Power Protection (OPP), No Load Operation (NLO), Over Temperature Protection (OTP), Surge & Inrush Protection (SIP)
- > 28(18+10) pin motherboard socket ensure compatibility with the latest motherboards
- > ATX12V 2.4 - Designed to the latest power supply standards and compatible with the latest generation of CPUs

Model	HCG650 Gold
Type	ATX 12V 2.4
Modular	Fully Modular
Dimension	140(L) x 150(W) x 86(H) mm
Warranty	10 Years
Input Voltage	100-240 VAC ±10%
Input Current	9A-4.5A
Input Frequency	50Hz-60Hz
PFC	Active PFC (>0.9 typical)
Power Good Signal	100-500ms
Efficiency	92% Typically
Protection	OCP/OVP/UVP/SCP/OPP/OTP/SIP/NLO
Output Capacity	650W
Operation	0~40°C
Regulatory	cTUVus/TUV/CB/RCM/CE/EAC/CCC/BSMI/FCC/KR
Fan	120mm FDB Fan
Certifications	80 Plus Gold
Connector	1 x MB 24(20+4) Pin
	1 x 8(4+4) Pin EPS 12V
	4 x 8(6+2) Pin PCI-E
	8 x SATA
	3 x Molex
	1 x FDD
Net Weight	2.04Kg
Gross Weight	3.36Kg
UPC#	0-761345-11635-0 HCG650 Gold
	0-761345-11633-6 HCG650 Gold AU
	0-761345-11632-9 HCG650 Gold EC
	0-761345-11631-2 HCG650 Gold GB
	0-761345-11630-5 HCG650 Gold JP