POWER EVOLVED



Introducing the G Gold V2, the evolutionary next step in Cooler Master power and the ATX 3.1 upgrade to our G Gold PSU. With features such as 80 Plus Gold efficiency, a DC-to-DC + LLC circuit design, and a quiet HDB fan cooling, the V2 provides valuable performance in multiple dimensions.

Several changes and additions improve the overall user experience. Together, these design choices deliver an advanced PSU that is highly efficient and reliable. With an embossed cable, exceptional temperature resilience and a 5-year warranty, the G Gold V2 will evolve your machine.

G Gold 650 V2

Quiet HDB fan: A hydrodynamic bearing fan delivers long-lasting quiet and effective cooling.

80 Plus Gold efficiency certification: This unit is certified to achieve more than 90% efficiency at typical loads in a 115V test.

High temperature resilience: A 40°C maximum operating temperature allows for pushing your machine to the limits with overclocking and other high-intensity applications.

Embossed cable: An embossed cable texture provides a softer and overall improved grip with a pleasing aesthetic.

ATX 3.1 support: Compliant with ATX 3.1 to fully support a peak power 1.5 times higher than the rated maximum wattage, this unit is ideal for use with the 40 series GPUs.

Single +12V rail: All power comes from a single +12V source, ensuring consistent output through all connected cables.

DC-to-DC technology: The DC-DC circuit design offers reliable, stable output to all connected components.

2 EPS Connectors: Two 4-pin EPS connectors are included for universal compatibility with current-gen motherboards.

5-year warranty: This unit comes with a standard limited manufacturing warranty of 5 years from the date of purchase.



FEATURE HIGHLIGHTS



Quiet HDB fan

A hydrodynamic bearing fan delivers long-lasting quiet and effective cooling.



High temperature resilience

A 40°C operating temperature allows for pushing your machine to the limits.

80 Plus Gold efficiency certification

Certified to achieve more than 90% efficiency at typical loads in a 115V test.



Embossed cable

An embossed cable texture provides a softer and overall improved grip with a pleasing aesthetic.

5-year warranty

This unit comes with a standard limited manufacturing warranty of 5 years from the date of purchase.

ATX 3.1 support

After passing the ATX 3.1 peak power test, this unit is 40 series ready.

SPECIFICATIONS

Product Name		G Gold 650 V2
Item Code		MPE-6502-ACAAG
ATX Version		ATX 12V Ver. 3.1
PFC		Active PFC
Input Voltage		100 - 240V
Input Current		10 - 5A
Input Frequency		50 - 60Hz
Dimensions (L x W x H)		140 x 150 x 86mm
Fan Size		120 mm
Fan Bearing		HDB
Efficiency		≥ 90% @ Typical Load
80 PLUS Rating		80 PLUS Gold
ErP 2014 Lot 3		Yes
Operating Temperature		0 ~ 40℃
Power Good Signal		100 - 150ms
Hold Up Time		≥ 16ms
MTBF		>100,000 hours @ 25℃ ambient
Protections		UVP / OVP / OPP / OTP / SCP
Regulatory		cTUVus,TUV, CE, FCC, BSMI, CCC, EAC, RCM, UKCA, RoHS2.0 / BIS, KC (based on region's request.)
Connectors	ATX 24 Pin	x1 = 1x (500mm)
	EPS 8 Pin / 4+4 Pin	x2 = 1x (550+120mm)
	SATA	x6 = 2x (400+150+150mm)
	Peripheral 4 Pin	x3 = 1x (400+150+150mm)
	PCI-e 6+2 Pin	x4 = 2x (500+120mm)

AC INPUT	100-240V~ 10 - 5A 50 - 60Hz				
DC OUTPUT	+3.3V	+5V	+12V	-12V	+5Vstb
	20A	20A	54A	0.3A	3A
TOTAL POWER	120W		648W	3.6W	15W
	650W				

PACKING INFORMATION

Cable Type	EAN	UPC
MPE-6502-ACAAG-US	4719512144510	884102116834
MPE-6502-ACAAG-UK	4719512144527	884102116841
MPE-6502-ACAAG-EU	4719512144534	884102116858
MPE-6502-ACAAG-ST	4719512144541	884102116865
MPE-6502-ACAAG-AU	4719512144558	884102116872
MPE-6502-ACAAG-BR	4719512144565	884102116889
MPE-6502-ACAAG-KR	4719512144572	884102116896
MPE-6502-ACAAG-TW	4719512144589	884102116902
MPE-6502-ACAAG-JP	4719512144596	884102116919
MPE-6502-ACAAG-IN	4719512144602	884102116926

Net Weight	1.65 kg / 3.6376 lb
Gross Weight	2.05 kg / 4.5217 lb
Package Dimensions	245 x 190 x 110mm (9.65 x 7.48 x 4.33")
Carton Dimensions	570 x 260 x 215mm (22.44 x 10.24 x 8.46")
Unit / Carton	5 pcs
Carton / Pallet	32 pcs

- All images and descriptions are solely for example purposes.
- Specifications, features, and prices are subject to change without notice.
- Specifications, appearances, and features may vary by model and region. Please refer to official specification pages for full details.
- Unless otherwise stated, all performance claims are based on theoretical performance. Actual figures may vary in real-world situations.
- Any configuration other than original product configuration is not performance guaranteed.