



**PLATINUM**  
**HIGH CURRENT PRO**

**HCP-850 Platinum**

**POWER SUPPLY**

**USER'S MANUAL**

## HCP-850 Platinum

Antec's High Current Pro Platinum series is the pinnacle of power supplies. High Current Pro Platinum is fully modular with a revolutionary 20+8-pin MBU socket for the needs of tomorrow. By using a PSU that is 80 PLUS® PLATINUM certified & ErP Lot 6: 2013, operating up to 94% efficient, you can reduce your electricity bill by up to 25% when compared to many other power supplies. HCP Platinum's innovative 16-pin sockets create a new level of flexibility by doubling the modular connectivity, supporting two different 8-pins connectors and even future connectors of 10, 12, 14 or 16-pins. Backed by a 7-year warranty and lifetime global 24/7 support, the HCP-850 Platinum embodies everything a power supply can accomplish today.

## STANDARDS AND FEATURES

The connectors and power specifications of the HCP-850 Platinum PSU are all compatible with ATX12V v2.32 and EPS12V v2.92 specifications. The HCP-850 Platinum features Universal Input, which automatically senses when you connect the power supply to any AC power source between 100 - 240V without setting a voltage switch. This power supply also features Active Power Factor Correction (PFC), which improves the power factor value of the power supply by altering the input current wave shape, helping to power transmission across the grid.

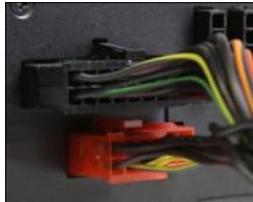
## SYSTEM PROTECTION

A variety of industrial-grade safety circuitry will help protect your computer: Over Current Protection (OCP), Over Voltage Protection (OVP), Under Voltage Protection (UVP), Short Circuit Protection (SCP), Over Power Protection (OPP), Over Temperature Protection (OTP), Surge & Inrush Protection (SIP), No Load Operation (NLO) & Brown-Out Protection (BOP). Sometimes the PSU will "latch" into a protected state. You will need to power off the PSU and clear the fault before it will function again. There are no user-replaceable fuses in your HCP-850 Platinum.

## MODULAR CABLE JACKS

There are six 5-pin black jacks and five 16-pin black jacks on the back of your HCP-850 Platinum PSU. These jacks are for the optional cables that come with your power supply.

**Caution: Please connect only cables provided with this HCP-850 Platinum. Other cables may not be compatible!**



20+8-pin MBU connection

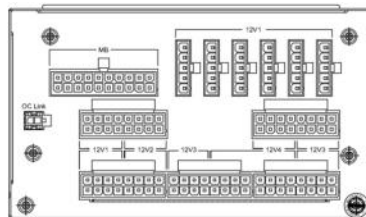


You can connect 1 or 2 modular 8-pin cables into any of the 16-pin sockets

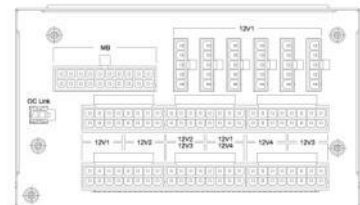
## OC Link™ System Installation

Connect the included OC Link™ cable to two Antec HCP Platinum power supplies. You can use any combination of models such as 850 + 1000 or 1300 + 1300. You can connect any system component to either PSU without restrictions. Please read the chapter “INSTALLATION” for general installation help. Please turn the “I/O” switch on both power supplies to “I” (On). After completion of set-up, simply turn on the system.

| HCP Platinum OC Link™ |         | MAX    |            |       |
|-----------------------|---------|--------|------------|-------|
| PSU # 1               | PSU # 2 | Output | +12V comb. | PCI-E |
| 850W                  | 850W    | 1700W  | 142A       | 12    |
| 850W                  | 1000W   | 1850W  | 154A       | 12    |
| 850W                  | 1300W   | 2150W  | 179A       | 16    |
| 1000W                 | 1000W   | 2000W  | 167A       | 12    |
| 1000W                 | 1300W   | 2300W  | 192A       | 16    |
| 1300W                 | 1300W   | 2600W  | 217A       | 20    |



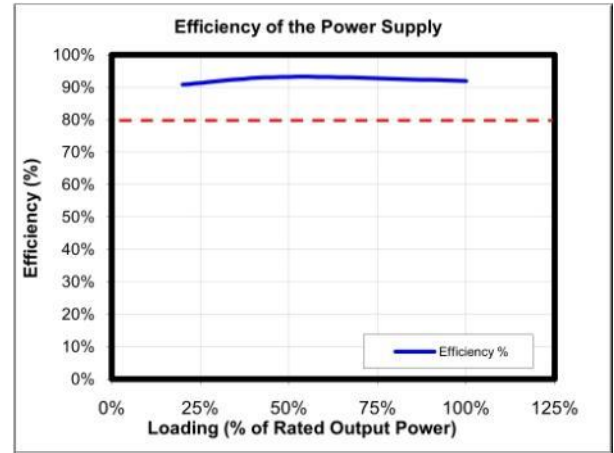
HCP-850 P. / HCP-1000 P.



HCP-1300 P.

## 80 PLUS® CERTIFICATION

80 PLUS® certification is the most widely recognized independent standard in power supply efficiency. An 80 PLUS® certified power supply uses less energy and generates less heat to stay cooler, run quieter and last longer. The HCP-850 Platinum has been 80 PLUS® PLATINUM certified to be at least 89% efficient at a wide range of operating loads; this will lower your operating costs and help protect the environment.



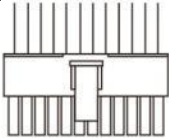
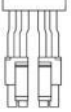

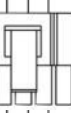
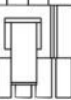
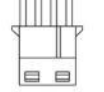
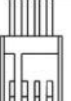

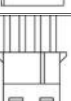

## POWER OUTPUT

To see the output capacity and regulation for each different voltage, see table 1.

**TABLE 1**

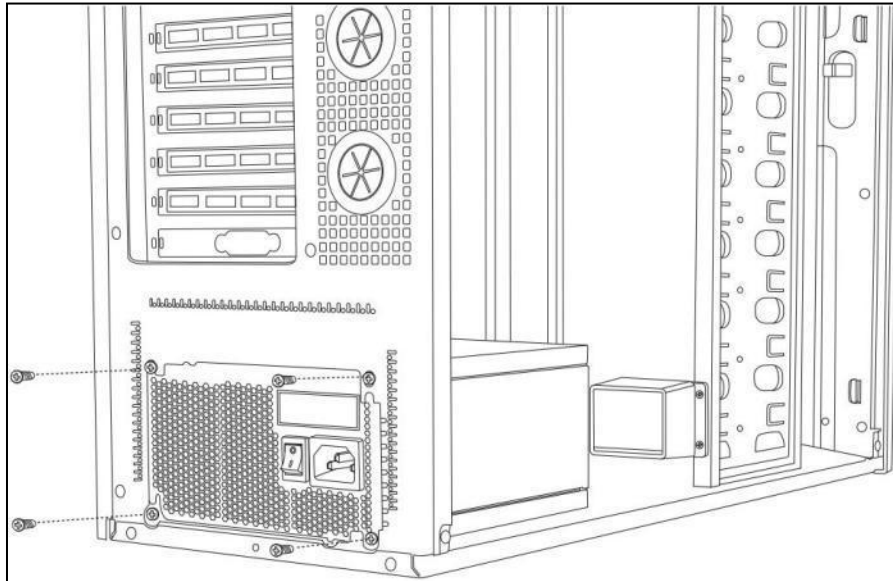
| Output Voltage    | Load Max. | Regulation | Ripple & Noise |
|-------------------|-----------|------------|----------------|
| +12V <sub>1</sub> | 40A       | ± 5%       | < 70 mV        |
| +12V <sub>2</sub> | 40A       | ± 5%       | < 70 mV        |
| +12V <sub>3</sub> | 40A       | ± 5%       | < 70 mV        |
| +12V <sub>4</sub> | 40A       | ± 5%       | < 70 mV        |
| +3.3V             | 25A       | ± 5%       | < 40 mV        |
| +5V               | 25A       | ± 5%       | < 40 mV        |
| -12V              | 0.5A      | ± 10%      | < 120 mV       |
| +5Vsb             | 3A        | ± 5%       | < 40 mV        |

**TABLE 2**

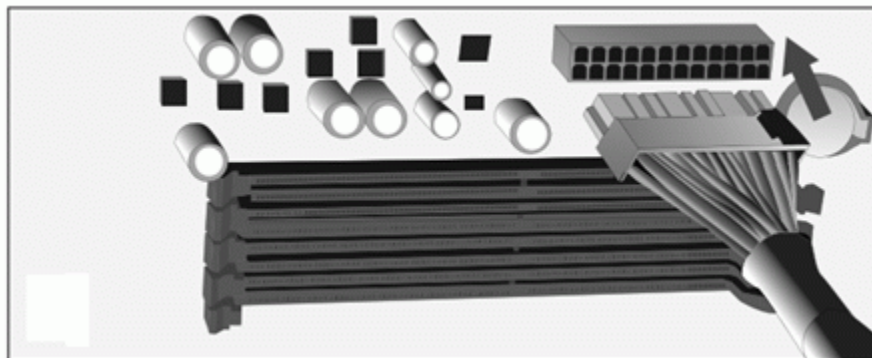
| Cable Quantity | Connectors  | Socket         | Description              |
|----------------|---|----------------|--------------------------|
| 1              |  X 1   | 20-pin & 8-pin | 24-pin Motherboard       |
| 1              |  X 1   | 8-pin          | 8(4+4)-pin ATX12V/EPS12V |
| 1              |  X 1   | 8-pin          | 8-pin EPS12V             |
| 1              |  X 2   | 16-pin         | 8(6+2)-pin PCI-E         |
| 2              |  X 2   | 8-pin          | 8(6+2)-pin PCI-E         |
| 1              |  X 3<br> X 1 | 5-pin          | Molex + FDD              |
| 3              |  X 3   | 5-pin          | SATA                     |
| 1              |  X 3   | 5-pin          | Molex                    |
| 1              |  X 2   | 2-pin          | OC Link™                 |

## INSTALLATION

Install the PSU into either the top or bottom of your case with the four screws provided. Refer to your case manual if you are unsure where the power supply should be installed.

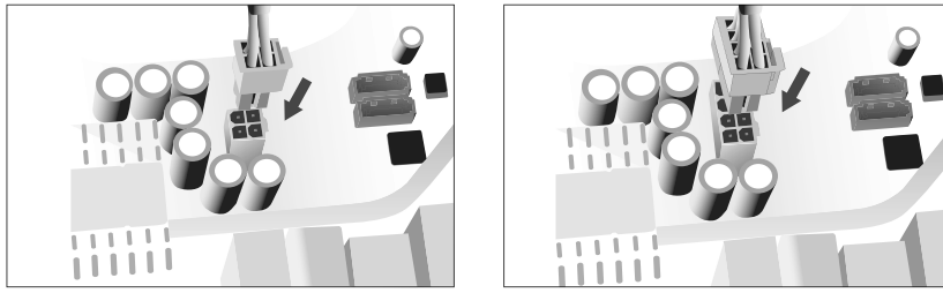


Connect the 24-pin main power connector to your motherboard.

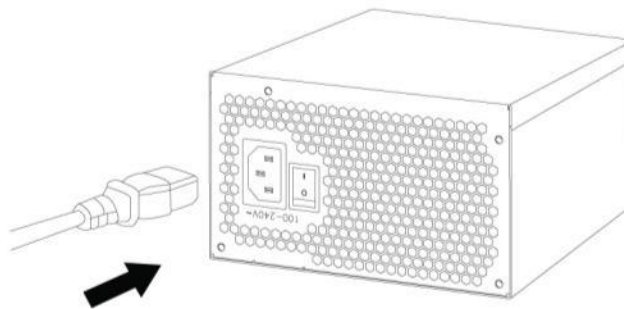


Connect the 8-pin or 4+4-pin connector for the CPU. If your motherboard has an 8-pin socket with a cover on some of the openings, we recommend that you remove the cover and use the 8-pin connector.

Note: Please also refer to your motherboards manual for any special instructions.



Connect the AC power cord to the power supply AC inlet. Be sure to use the heavy-duty cord supplied with your PSU.



PCI-E graphics cards use different amounts of power. For some, a single 6-pin connector is sufficient, making the hardwired connector the preferred choice. More powerful cards use multiple connectors, including the advanced 8-pin PCI-E connector. The 8-pin PCI-E connector on the PSU can be used as either a 6- or 8-pin connector.

Hard drives, optical drives (CD/DVD/BluRay™) and other accessories will use either the older 4-pin Molex connector or the newer 15-pin SATA connector. 4-pin Molex connectors have two black, one yellow and one red wire. The SATA connector has an additional orange power wire.

When you have all the connections secured, turn the switch on the PSU to the “|” position.



**Technical Support:**

**[www.antec.com/support](http://www.antec.com/support)**

**USA & Kanada**

1-800-22ANTEC    [nasupport@antec.com](mailto:nasupport@antec.com)

**Europe**

+49-(0)40-226-139-22    [eusupport@antec.com](mailto:eusupport@antec.com)

**Asia**

+886 (0)800-060-696    [apsupport@antec.com](mailto:apsupport@antec.com)

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**Antec, Inc.**

**47900 Fremont Blvd., Fremont, CA 94538 / USA**

**Tel: 510-770-1200 - Fax: 510-770-1288**

**[www.antec.com](http://www.antec.com)**

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