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24 pin MOLEX 44206-0007 connector at the motherboard

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ATX12V 2.0 is a novel common ATX standard, use 24 pin connector.

Changes to ATX standard were made to support 75 watt PCI Express requirements. New ATX v 2.x uses new connector, but most motherboards nowadays allow to use an old ATX v 1.x power supply with 20 pin connector - it connects to 24 pin motherboard receptacle.



24 pin MOLEX 39-01-2240 or equivalent connector at the PSU cable

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Pin	Name	Color	Description
1	3.3V	Orange	+3.3 VDC
2	3.3V	Orange	+3.3 VDC
3	COM	Black	Ground
4	5V	Red	+5 VDC
5	COM	Black	Ground
6	5V	Red	+5 VDC
7	COM	Black	Ground
8	PWR_OK	Gray	Power Ok is a status signal generated by the power supply to notify the computer that the DC operating voltages are within the ranges required for proper computer operation (+5 VDC when power is Ok)
9	5VSB	Purple	+5 VDC Standby Voltage (max 10mA)
10	12V	Yellow	+12 VDC
11	12V	Yellow	+12 VDC
12	3.3V	Orange	+3.3 VDC
13	3.3V	Orange	+3.3 VDC
14	-12V	Blue	-12 VDC
15	COM	Black	Ground
16	/PS_ON	Green	Power Supply On (active low). Short this pin to GND to switch power supply ON, disconnect from GND to switch OFF.
17	COM	Black	Ground
18	COM	Black	Ground
19	COM	Black	Ground
20	-5V	White	-5 VDC (this is optional on newer ATX-2 supplies, it is for use with older AT class expansion cards and can be omitted on newer units)
21	+5V	Red	+5 VDC
22	+5V	Red	+5 VDC
23	+5V	Red	+5 VDC
24	COM	Black	Ground

/PSON activated by pressing and releasing the power button while the power supply is in standby mode. Activating /PSON connects the power supply's /PSON input to ground, thereby switching the power supply to full-on condition.

18 AWG is recommended for all wires except pin 11, which should be 22 AWG. For 300W configurations 16 AWG is recommended.

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Related pinouts:

[ATX \(old\) power supply connector pinout v 1.x](#) widely used at PC motherboard.

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Is it correct?: **should be correct**

Source(s) of this and additional information: [ATX Spec v2.03](#) at [Platform Development Support](#), from [Hardware Book](#), http://www.formfactors.org/developer%5Cspecs%5CPSU_DG_rev_1_1.pdf Table 21, <http://en.wikipedia.org/wiki/ATX>
Contributor: Dave Johnson, Ken Mazie

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