USER'S MANUAL

ATX-AS500W

ATX-AS520W

Content

ENGLISH

USER'S MANUAL

1.Product Features:

-Complies with EPS 12V version

-Dual 12V outputs for stability and safety

-High-tech aluminum 2.0mm casting for best cooling

-Multi-color coated components & PC board

-Excellent Ventilation Design:

2 x 80mm UV blue LED fans (ATX-AS500W version);

1 x 80mm UV blue LED fan + 2 x 80mm UV blue fans (ATX-AS520W version)

-Super Silent Design:

1 x user-adjustable fan speed controller optimizing balance between noise reduction and necessary cooling

-Green ultra-violet light sensitive wire sleeves, on / off power switch and power plug.

-Connectors: All connectors are green UV reactive

1 x 20/24pin Main Power

1 x ATX 12V 4pin

1 x ATX 12V 4pin/8pin (optional)

8 x Peripheral

2 x Floppy

2 x SATA

1 x PCI Express

-Support Intel & AMD

-Short Circuit / Over Voltage / Over Current / Over Power / Under Voltage / Electric Shock Protection

-100% Burn-In Test / Hi-Pot Test / Vibration Test / Leak Current Test

2.Product Specifications:

2.1 AC Input:115V / 230V

2.2 Operating Temperature:

The power supply should be operated in an ambient temperature up to 40℃ MAX.

2.3 Model name of standard ATX types:

ATX-AS500W

ATX-AS520W

2.4 DC Output:

- The max. DC output voltage of +5vsb is 2.0A and accord with ATX 2.0 all versions design guide and meet ATX 12V form factor.
- It has the best compatible characteristics with various brands of motherboard in the market.

DC Output Load Current Range of ATX-AS500W

Power distribution for configuration

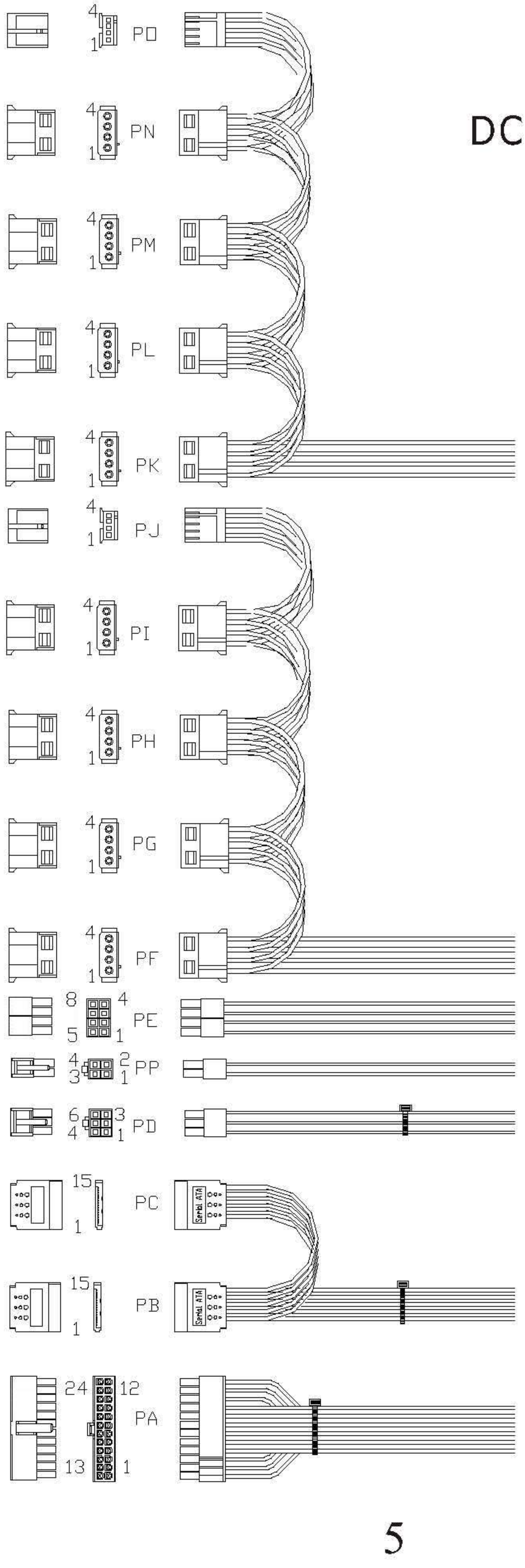
DC O/P Load	Max	Peak
+3.3V (Amps)	28A	...
+5 V (Amps)	30A	...
+12 V1 (Amps)	16A	18A
+12 V2 (Amps)	18A	20A
−5 V (Amps)	0.3A	...
−12V (Amps)	0.8A	
+5VSB (Amps)	2.0A	2.5A
+3.3V & +5V Combines Load :200W +3.3V , +5V & 12V Combines Load :480W		
Total Peak output Power:500W		

DC Output Load Current Range of ATX-AS520W

Power distribution for configuration

DC O/P Load	Max	Peak
+3.3V (Amps)	28A	...
+5 V (Amps)	30A	...
+12 V1 (Amps)	16A	18A
+12 V2 (Amps)	18A	20A
−5 V (Amps)	0.3A	...
−12V (Amps)	0.8A	
+5VSB (Amps)	2.0A	2.5A
+3.3V & +5V Combines Load :200W +3.3V , +5V & 12V Combines Load :500W		
Total Peak output Power:520W		

2.5 Description of Connectors:



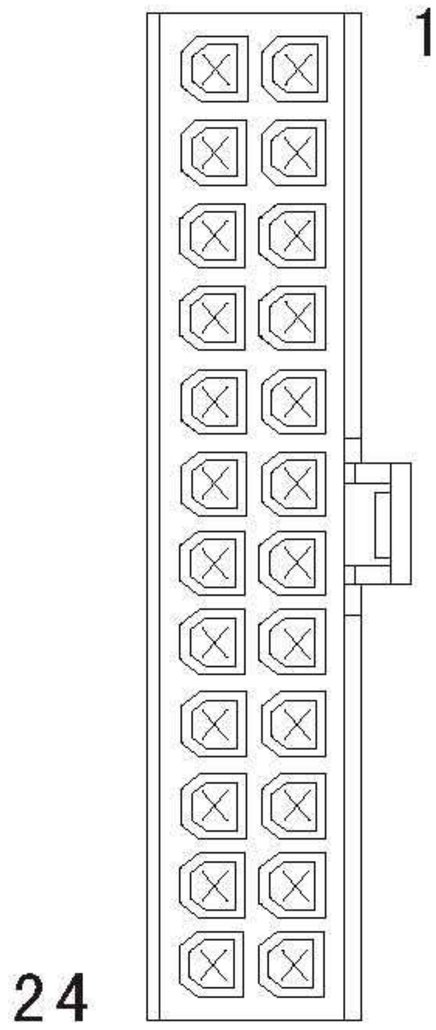
DC OUTPUT WIRES

(optional)

ATX Main Power Connectors 24Pins (20+4 Pins) : PA

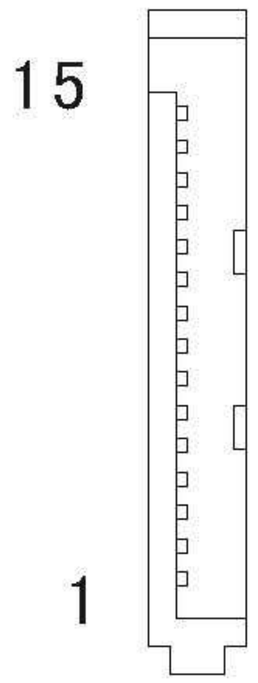
Color	Single	Pin
Orange	+3.3V	1
Orange	+3.3V	2
Black	COM	3
Red	+5VDC	4
Black	COM	5
Red	+5VDC	6
Black Black	COM COM SENSE	7
Gray	PWR_OK	8
Purple	+5VSB	9
Yellow	+12V1DC	10
Yellow	+12V1DC	11
Orange	+3.3VDC	12

Color	Single	Pin
Orange [Brown]	+3.3VDC	13
Blue	-12VDC	14
Black	COM	15
Green	PS-ON#	16
Black	COM	17
Black	COM	18
Black	COM	19
White	-5VDC	20
Red	+5VDC	21
Red	+5VDC	22
Red	+5VDC	23
Black	COM	24



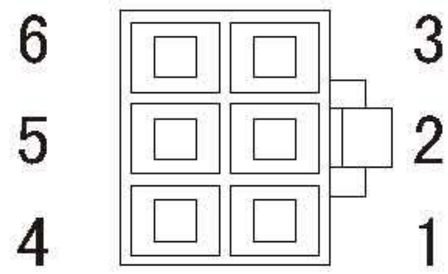
Serial ATA Connectors : PB/PC

Color	Single	Pin
Yellow	+12V1DC	1-3
Black	COM	4-6
Red	+5VDC	7-9
Black	COM	10-12
Orange	+3.3VDC	13-15



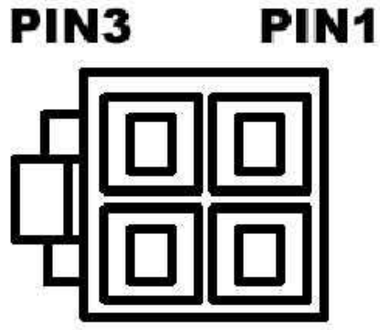
ATX Power Supply (PCI Express) : PD

Color	Single	Pin
Black	COM	1
Black	COM	2
Black	COM	3
Yellow	+12V2DC	4
Yellow	+12V2DC	5
Yellow	+12V2DC	6



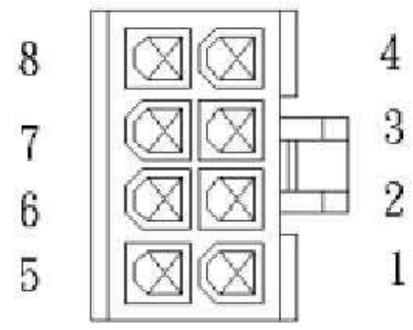
EPS +12V Connectors 4Pins : PP

Color	Single	Pin
Black	COM	1
Black	COM	2
Yellow	+12V2DC	3
Yellow	+12V2DC	4



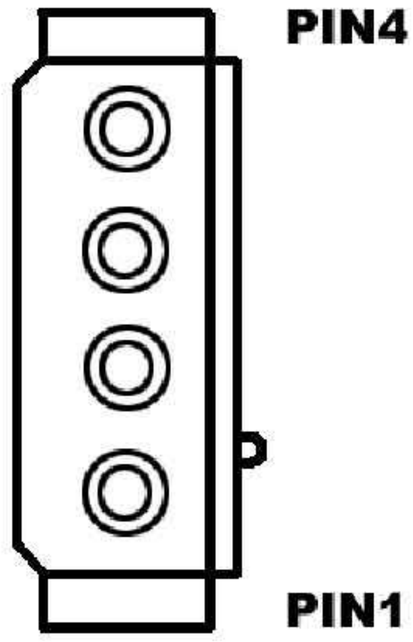
EPS +12V Connectors 8Pins (4+4 Pins) : PE (optional)

Color	Single	Pin
Yellow	+12V2DC	1
Yellow	+12V2DC	2
Yellow	+12V2DC	3
Yellow	+12V2DC	4
Black	COM	5
Black	COM	6
Black	COM	7
Black	COM	8



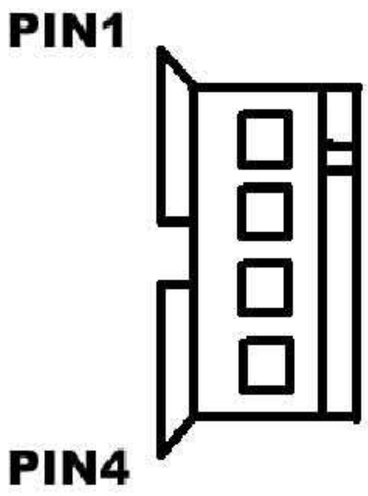
Peripheral Connectors : PF/PG/PH/PI/PK/PL/PM/PN

Color	Single	Pin
Yellow	+12V1DC	1
Black	COM	2
Black	COM	3
Red	+5VDC	4



Floppy Connectors : PJ/PO

Color	Single	Pin
Red	+5VDC	1
Black	COM	2
Black	COM	3
Yellow	+12V1DC	4

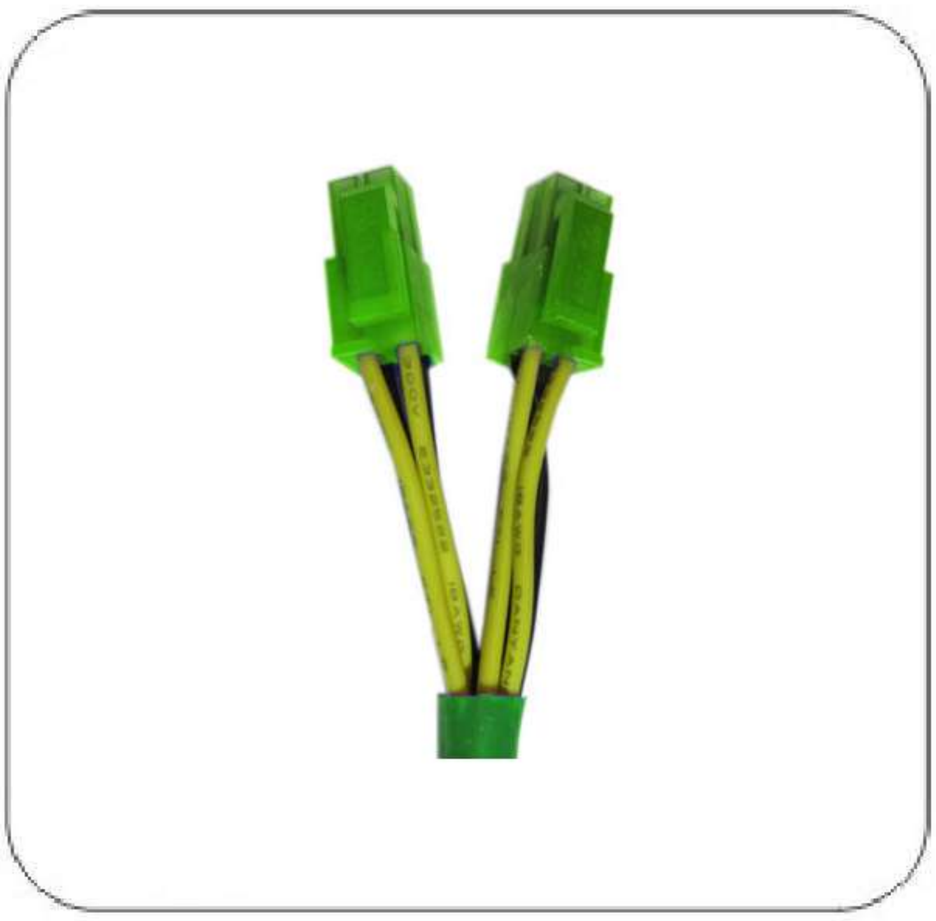


Fan Speed Adjustable Knob

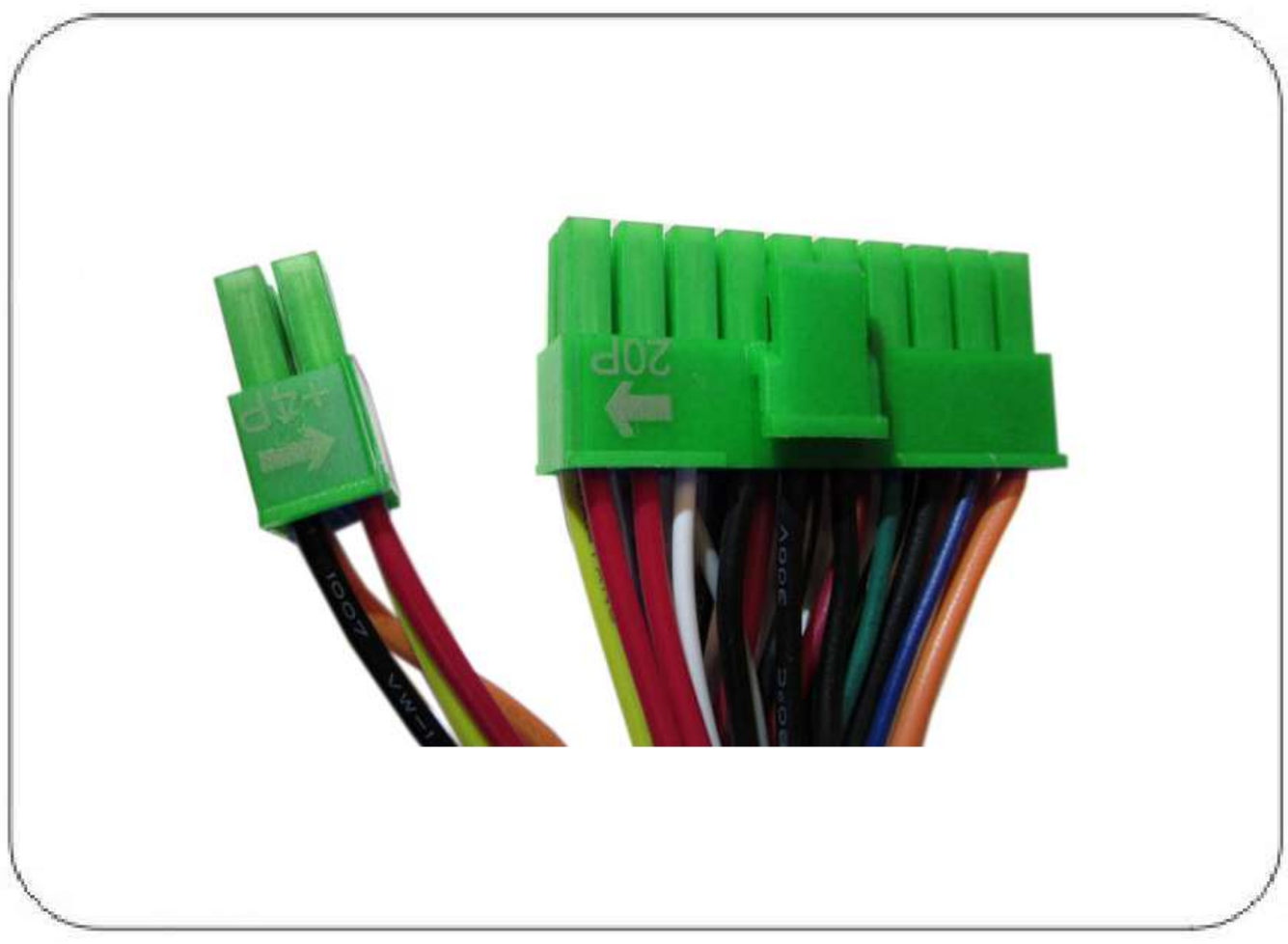
User-adjustable fan speed controller optimizing balance between noise reduction and necessary cooling

- **Range: 80%~100%**

8Pins (4+4 Pins) (optional)



24Pins (20+4 Pins)



2.6 Protection:

The power supply itself is designed with both over load and short circuit protection functions described as bellow:

- When the total load exceeds 130% to 160% of the max. Output current, the power supply shall be latch into the state of shutdown.
- When any set of DC output is in short circuit, power supply shall be latch into the state of shutdown in order to protect the circuit from being damaged.

3.Pre-cautions:

Cautions! Unauthorized Personal should not do the following in order to avoid electrical shock!

3.1 Do not open the top cover of power supply case!

3.2 Before turning on the power supply, please make sure if the input voltage of the slide switch set on power supply corresponds to the power voltage given in your environment (US, Canada: 115V. Europe, Central America, South America: 230V).

3.3 Please keep the power supply from humidity.