

Model: AK-U4-500



ak Professional Power Supply Solutions AKOU 1000039 Model: AK-U4-500 AC INPUT ATX12V v2.31 230V 50Hz DC OUTPUT 5A +3.3V +5V MAX CURRENT +12V 500W -12V +5VSB 15A 15A MAX COMBINED VARRANTY VOID IF TAMPERED 35A 0.3A 2A 103W TOTAL POWER 420W 3.6W 10W 500W 80 CAUTION! Do not rem С Є 💉 🔯 . PLUS Ø BRONZE PFC and

Product typeKA:UA:500Product typeComputer power supplyInternational Computer power supplyFormatSeriesUtimateSupply voltage230 VPower consumption< 5 AInternational Computer power consumption< 80 %International Computer power consumption< 80 %International Computer power consumptionS AInternational Computer power consumptionInternational Computer power consumptionInternational Computer power connectorInternational Computer power connectorInternational Computer power connector24-pinInternational Computer power connector24-pinInternational Computer power connector24-pinInternational Computer power connector24-pinInternational Computer power connector PCI-E B pinNoneInternational Computer power connecto				
ATX 2.31ATX 2.31SeriesUltimateSupply voltage230 V230 V230 VCARACT5.5Series230 VSeries230 VSeries230 VSeries230 VSeries230 VSeries80 PLUS compatibilityVesSeriesSeriesBo PLUS compatibilityVesSeriesCurrent on the +3.3V rail15 ACurrent on the +12V rail35 ACurrent on the +12V rail35 AMaximum load on 12V line420 WMaximum load on 12V line420 WMaximum power connector ATX12V P4NoneSeries1 pc (4 + 4.pin )Power connector PCI-E 6 pin1 pcPower connector PCI-E 6 pin1 pcPower connector PCI-E 6 pin1 pcSATA connector1 pcSATA connector2 pcsSATA connector PCI-E 6 pin1 pcSATA connector1 pcSATA connector1 pcSATA connector <td>Product code</td> <td>AK-U4-500</td>	Product code	AK-U4-500		
SeriesUtilimateSupply voltage230 VSupply voltage230 VPower consumption< 5 A		Computer power supply		
Supply voltage230 VPower consumption< 5 A	Format	ATX 2.31		
Power consumption< 5 A	Series	Ultimate		
Efficiency> 80 %80 PLUS compatibilityYes80 PLUS compatibilityBronze80 PLUS current on the 4.3 30 ral15 ACurrent on the 4.5 Vrail15 AMaximum load on 4.3 30 and 45 Virail103 WCurrent on the 4.12 Virail35 AMaximum load on 12 Virail420 WMaximum load on 12 Virail420 WMaximum load on 12 Virail420 WMaximum power500 WMaximum power500 WMaximum power connector ATX12 VPNonePower connector PCI-E 6 pirail1 pc (4 + 4-pin )Power connector PCI-E 6 pirail1 pcPower connector PCI-	Supply voltage	230 V		
80 PLUS compatibilityYes60 PLUS certificateBronze60 PLUS certificateBronze61 Current on the +33 vali15 A61 Current on the +5V rali15 A61 Current on the +3V rali15 A61 Current on the +12V rali35 A62 Current on the +12V rali35 A62 Current on the +12V rali35 A63 Current on the +12V rali420 W63 Current on the +12V rali420 W64 Current on the +12V rali420 W65 Current on the +12V rali420 W65 Current on the +12V rali100 W65 Current on the +12V rali100 W76 Current on the +12V rali100 W	Power consumption	< 5 A		
80 PLUS certificateBronzeCurrent on the +3.3V rail15 ACurrent on the +5V rail15 AMaximum load on +3.3V and +5V line103 WCurrent on the +12V rail35 ACurrent on the +12V rail35 AMaximum load on 12V line420 WMaximum load on Power connector24-pinMaximum load on Power connector AX12V P4NonePower connector FP12V 8 pin1 pc (4 + 4-pin )Power connector FP12E 6 pin1 pcPower connector PC1E 8 pinNonePower connector PC1E 8 pinNonePowe	Efficiency	> 80 %		
Current on the +3.3V rail15 ACurrent on the +5V rail15 AMaximum load on +3.3V and +5V line103 WCurrent on the +12V rail35 ACurrent on the +12V rail35 AMaximum load on 12V line420 WMaximum load on 12V line500 WMaximum power500 WPower connector PCI-E 8100 CPower connector FPS12V 8 pin1pc (4 + 4-pin )Power connector PCI-E 6 pin1pcPower connector PCI-E 6 pin1pcPower connector PCI-E 6 pin1pcPower connector PCI-E 8 pinNonePower connector PCI-E 8 pinNoneMolex connector1pcPower connector PCI-E 8 pinNonePower Supply connectorIpcPower Supply ConnectorYesPower Supply ConnectorYesPower Supply ConnectorIpc Pic Pic Pic Pic Pic Pic Pic Pic Pic Pi	80 PLUS compatibility	Yes		
Current on the +5V rail55 AMaximum load on +3.3V and +5V line103 WCurrent on the +12V rail35 ACurrent on the +12V rail35 AMaximum load on 12V line420 WMaximum load on 12V line500 WMaximum power500 WMaximum power600 WPower connector POLE 044.9in IPower connector PCLE 64-2 pin1 pc (4 + 4.9in I)Power connector PCLE 64-2 pin1 pcPower connector PCLE 64-2 pin1 pcPower connector PCLE 64-2 pin1 pcMolex connector2 pcsMolex connector1 pcPower connector PCLE 64-2 pin1 pcMolex connector1 pcPower connector PCLE 64-2 pin1 pcMolex connector2 pcsMolex connector1 pcPower connector PCLE 64-2 pinNonePower connector PCLE 64-2 pin1 pcMolex connector1 pcPower connector PCLE 64-2 pinNonePower Supply connertor1 pcPower connector PCLE 64-2 pinYesPower connector PCLE 64-2 pinYesPow	80 PLUS certificate	Bronze		
Maximum load on +3.3V and +5V line103 WCurrent on the +12V rai35 AMaximum load on 12V line420 WMaximum load on 12V line500 WMainboard Power connector24-pinMainboard Power connector ATX12V P4NonePower connector PCI-E 6 pin1 pc ( 4 + 4-pin )Power connector PCI-E 6 pin1 pc ( 4 + 4-pin )Power connector PCI-E 6 pin1 pc ( 4 + 4-pin )Power connector PCI-E 6 pin1 pc ( 4 + 2-pin )Power connector PCI-E 6 pinNonePower connector PCI-E 8 pinNoneMolex connector2 pcsMolex connector1 pcSATA connector1 pcSATA connector6 pcsModular power supplyNoMechanical switchYesSGround wireYesYesSATASATA CONCPYesSATA CONCPYes <t< td=""><td>Current on the +3.3V rail</td><td>15 A</td></t<>	Current on the +3.3V rail	15 A		
Current on the +12V rail35 AMaximum load on 12V line420 WMaximum power500 WMainboard Power connector24-pinPower connector ATX12V P4NonePower connector FP512V 8 pin1 pc ( 4 + 4-pin )Power connector PCI-E 6 pin1 pcPower connector PCI-E 6 pin1 pcMolex connector2 pcsMolex connector2 pcsModular power supplyNoModular power supplyNoMechanical switchYesGround wireYesGround wireYesMathed ConnectorYesPower connector PCI-E 61terYesMechanical SwitchYesMechanical SwitchYesPower connector PCIYesPower connector PCIYes<	Current on the +5V rail	15 A		
Maximum load on 12V line420 WMaximum power500 WS00 W24-pinPower connector ATX12V P4NonePower connector PCI-E 6 pin1pc (4 + 4-pin )Power connector PCI-E 6 pin1pcPower connector PCI-E 8 pinNonePower supply connectoYesPower supply connectoIEC C14Power supply connectoIEC C14Power Power supply connectoIEC C14Power supply ConnectoPowerPower supply ConnectoIEC C14Power	Maximum load on +3.3V and +5V line	103 W		
Maximum powe500 WMainboard Power connector24-pinPower connector ATX12V P4NonePower connector PCI-E 6 pin1pc (4 + 4-pin )Power connector PCI-E 6 pin1pcPower connector PCI-E 6 pin1pcPower connector PCI-E 6 pinNonePower connector PCI-E 6 pinNonePower connector PCI-E 6 pin1pcMolex connector2pcsPower connector PCI-E 6 pinNoneModular power supplNoNoneCativePower connector PCF filterActiveModular power supplYesNoneYesPower connector OCPYesPower supply connectoIECC14Power supply connectoIECC14Power supply ConnectoStrancaPower supply ConnectoYesPower supply ConnectoIECC14Power supply ConnectoIECC14 </td <td>Current on the +12V rail</td> <td>35 A</td>	Current on the +12V rail	35 A		
Mainboard Power connector24-pinPower connector ATX12V P4NonePower connector EPS12V 8 pin1pc (4 + 4-pin )Power connector PCI-E 6 pin1pcPower connector PCI-E 6 pin1pcPower connector PCI-E 8 pinNoneMolex connector2 pcsMolex connector1pcSATA connector6 pcsModular power supplyNoMechanical switchYesSato Mechanical switchYesSato Mechanical SoftYesSato Mechanical SoftYes	Maximum load on 12V line	420 W		
Power connector ATX12V P4NonePower connector PCS12V 8 pi1pc (4 + 4-pin )Power connector PCI-E 6 pi1pcPower connector PCI-E 6 + 2 pi1pcPower connector PCI-E 8 piNonePower connector PCI-E 8 piSoneMolex connector1pcConstruction2 pcsModular power supplyNoModular power supplyNoMechanical switchYesGround wireYesModular power SupplyYesMechanical switchYesMechanical switchYesModular power SupplyYesMechanical switchYesMechanical SwitchYesMethanical SwitchYesMethanical SwitchYesMethanical SwitchYesMethanical SwitchYesMethanical SwitchYes<	Maximum power	500 W		
Power connector EPS12V 8 pi1 pc (4 + 4-pin )Power connector PCI-E 6 pi1 pcPower connector PCI-E 6 2 pi1 pcPower connector PCI-E 8 piNoneMolex connecto2 pcsMini-Molex connecto1 pcSATA connecto6 pcsModular power suppiNoMotor SATA connectoKeiveModular power suppiNoMechanical switchYesGround wireYesGround Ground WireYesGround Ground WireYesGround Ground WireYesGround Ground Ground WireYesGround Ground WireYesGround Ground Grou	Mainboard Power Connector	24-pin		
Power connector PCI-E 6 pin1 pcPower connector PCI-E 6 pinNonePower connector PCI-E 8 pinNoneMolex connector2 pcsMini-Molex connector1 pcSATA connector6 pcsModular power supplyNoModular power supplyKativeModular power supplyYesModular Ground wireYesSATA ConnectorYesSATA ConnectorIEC C14SATA ConnectorYesSATA ConnectorYesSATA ConnectorSATA ConnectorSATA ConnectorYesSATA ConnectorYes	Power connector ATX12V P4	None		
Power connector PCI-E 6+2 pin1 pcPower connector PCI-E 8 pinNoneConnector2 pcsConnector1 pcConnector6 pcsConnector6 pcsModular power supplyNoModular power supplyKativeConnectorFPC filterMechanical switchYesConnectorGround wireVesYesConnectorYesConnectorYesConnectorYesConnectorYesConnectorYesConnectorYesConnectorYesConnectorFC Cl4ConnectorFan adjustmentAutomaticStornCable lengtiHybrid standard C/E/F (CEE 7/7)	Power connector EPS12V 8 pin	1 pc ( 4 + 4-pin )		
Power connector PCI-E 8 pinNoneMolex connector2 pcsMini-Molex connector1 pcConnector6 pcsModular power supplyNoModular power supplyKativeMechanical switchYesGround wireYesGround wireYesModular power supplyYesMechanical SwitchYesMechanical SwitchYesMechanical SwitchYesMechanical SwitchYesMechanical SwitchYesMechanical SwitchYesMechanical ScipYesMechanical	Power connector PCI-E 6 pin	1 pc		
Molex connector2 pcsMini-Molex connector1 pcGord6 pcsModular power supplyNoModular power supplyActiveModular power supplyKesMechanical switchYesGround wireYesModular power supplyYesModular power supplyYesModular power supply connectorYesModular power supply connectorFC fuModular power supply connectorFC fuModular power supply connectorFC fuModular power supply connectorScModular power supply connectorFC fuModular power supply connectorFC fuModular power supply connectorScModular power supply connectorScModular power supply connectorFC fuModular power supply connectorScModular power supply connectorScMod	Power connector PCI-E 6+2 pin	1 pc		
Mini-Molex connectorjcGaca6 pcsModular power supplyNoModular power supplyActivePFC filterActiveMechanical switchYesGround wireYesVersYesMachanical SolutionYesPFC filterYesMechanical SolutionYesProcessorYesProcessorYesProcessorYesProcessorYesProcessorYesProver supply connectorFoclaPower supply connectorECC14Prover supply connectorAutomaticProver supply connectorAutomaticFan adjustmentsAutomaticMachanical SolutionYes To SonProver supply ConnectorFan adjustmentsMachanical SolutionAutomaticProver Supply ConnectorAutomaticProver supply ConnectorFan adjustmentsMachanical SolutionAutomaticProver Supply ConnectorHerrical Prover Supply ConnectorProver Supply ConnectorFan adjustmentsAutomaticAutomaticProver Supply ConnectorAutomaticProver Supply ConnectorSonProver Supply ConnectorFan adjustmentsAutomaticAutomaticProver Supply ConnectorHerrical Prover Supply ConnectorProver Supply ConnectorAutomaticProver Supply ConnectorHerrical Prover Supply ConnectorProver Supply ConnectorHerrical Prover Supply Connector<	Power connector PCI-E 8 pin	None		
SATA connector6 pcsModular power supplyNoPFC filterActiveMechanical switchYesGround wireYesPC filterYesPC filterYesPOwer supply connectorFer alPOwer supply connectorF	Molex connector	2 pcs		
Modular power supplyNoPFC filteActiveMechanical switchYesGround wireYesVesYesOVPYesParadet ScienceYesParadet ScienceYes <td>Mini-Molex connector</td> <td>1 pc</td>	Mini-Molex connector	1 pc		
PFC filterActiveIdentifiedYes	SATA connector	6 pcs		
Mechanical switchYesGround wireYesVPYesPasa </td <td>Modular power supply</td> <td>No</td>	Modular power supply	No		
Ground wireYesOVPYesOCD<	PFC filter	Active		
OVPYesI CONDERYesI CONDERYesI CONDERYesI CONDERYesI CONDERYesI CONDERIEC C14I CONDERI20 mmI CONDERAutomaticaI CONDERAutomaticaI CONDERIS - 75 cmI CONDERHybrid standard C/E/F (CEE 7/T)	Mechanical switch	Yes		
OCPYesOPYe	Ground wire	Yes		
OPPYesImage: Constant of the system of the	OVP	Yes		
OTPYesGCYesUVPYesPower supply connectorIEC C14Fan size120 mmFan adjustmentsAutomaticAutomatic575 cmThe cable plug #1Hybrid standard C/E/F ( CEE 7/7 )	OCP	Yes		
SCPYesUVPYesPower supply connectorIEC C14Fan size120 mmFan adjustmentsAutomaticCable length45 - 75 cmThe cable plug #1Hybrid standard C/E/F ( CEE 7/7 )	OPP	Yes		
UVPYesPower supply connectorIEC C14Fan size120 mmFan adjustmentsAutomaticCable length45 - 75 cmThe cable plug #1Hybrid standard C/E/F ( CEE 7/7 )	OTP	Yes		
Power supply connectorIEC C14Fan size120 mmFan adjustmentsAutomaticCable length45 - 75 cmThe cable plug #1Hybrid standard C/E/F ( CEE 7/7 )	SCP	Yes		
Fan size120 mmFan adjustmentsAutomaticCable length45 - 75 cmThe cable plug #1Hybrid standard C/E/F ( CEE 7/7 )	UVP	Yes		
Fan adjustmentsAutomaticCable length45 - 75 cmThe cable plug #1Hybrid standard C/E/F ( CEE 7/7 )	Power supply connector	IEC C14		
Cable length45 - 75 cmThe cable plug #1Hybrid standard C/E/F ( CEE 7/7 )	Fan size	120 mm		
The cable plug #1 Hybrid standard C/E/F (CEE 7/7)	Fan adjustments	Automatic		
	Cable length	45 - 75 cm		
The cable plug #2 IEC C13	The cable plug #1	Hybrid standard C/E/F ( CEE 7/7 )		
	The cable plug #2	IEC C13		

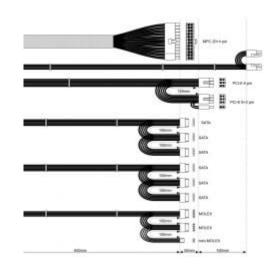
Power cable included	Yes
Material	Galvanized steel
Product color	Black
MTBF	100000 h
Temperature	5 - 50 °C
Package	EcoBox
Product size (L x W x H)	140 x 150 x 85 mm
Package size (L x W x H)	222 x 155 x 95 mm
Net weight	1.26 kg
Gross weight	1.33 kg
CE compatibility	Yes
FCC compatibility	No
RoHS compatibility	Yes
REACH compatibility	Yes
Included accessories	Power cable
EAN code	5901720134585
Warranty	36 months







3



## Description

3

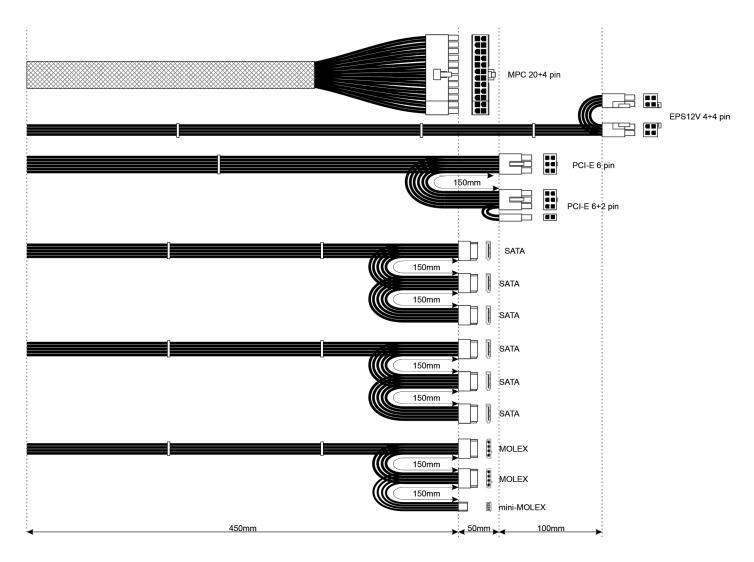
Akyga® AK-U4-500 ATX power supply Ultimate series 500W, compatible with ATX 2.31 standard.

Advanced parameters allow for use in complex configurations. The power supply has **6 SATA** connectors, **2 MOLEX** connectors, **mini-MOLEX** connector, **PCI-E 6+2-pin** connector, **PCI-E 6-pin** connector, **EPS12V 4+4-pin** connector and a universal **24-pin**motherboard connector. Silent 12 cm fan with chromed grill provide efficient cooling. **Manual on/off switch** allows for safe power cut off without the need of disconnecting the network cord. High efficiency and stable operation of the power supply affects the reliability of all computer components.

Several important protectors (OVP, OCP, OPP, OTP, SCP, UVP) and **active PFC filter** protect and prevent main computer parts from damage and stabilize the operation of the power supply so that it works without any unwanted interference. **1 m** power cord included.

The guarantee of high efficiency is the **<u>80 PLUS® certificate</u>**, which ensures that at least 80% of the energy transferred by the power supply is received by the supplied components.

## Cable map



## Nameplate

3

	Professional Power S		®		AT)	(12V v2.31	Model: <b>AK-U</b>	4-500	
	AC INPUT		115/230V / 60/50Hz					ш	
	DC OUTPUT	+3,3V	+5V	+12V	-12V	+5VSB			
	MAX CURRENT	15A	15A	35A	0,3A	2A	3	<b>V</b>	
	MAX COMBINED	10:	3W	420W	3,6W	10W			
	TOTAL POWER			500W	õ	Se Se			
$\frac{\text{CAUTION!}}{\text{Do not remove this cover. Trained service personnel only. No user serviceable parts inside.}$ $\underbrace{\text{FOC}  \text{C}  C$									