



BITMAIN Antminer APW5-12-2600 PSU Series User Manual

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BITMAIN APW5-12-2600 PSU Series User Guide

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Overview



The APW5-12-2600 series AC-DC PSU combines high efficiency and good dynamic performance into a power dense package. It also features overload, overheats, overcurrent, and low voltage protection, making it well suited to 12V, $\leq 2600\text{W}$ power devices. Please note:

1. This PSU cannot be used in countries where the mains power voltage is lower than 100V because the PSU will not start below this voltage

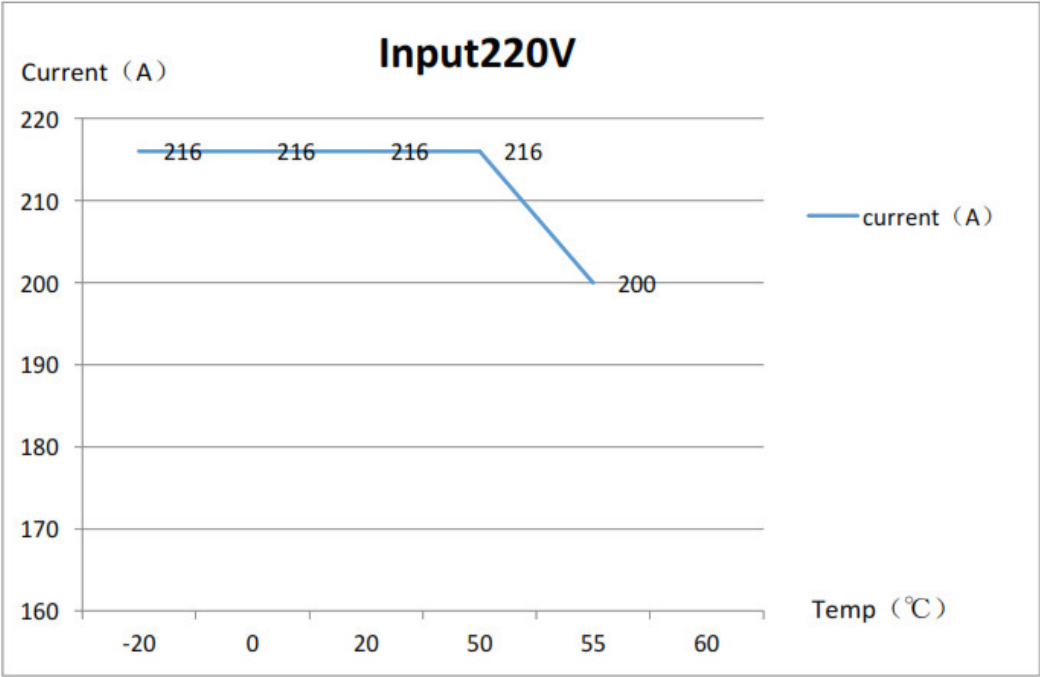
Features

- 110V/120V \pm 20% voltage input range
- High efficiency, up to 94.6%
- Short circuit, overload, and overheat protection
- Extreme power density
- An active power factor corrector function, PF>0.99(full load)
- Fan speed changes with temperature
- User can change output lines and fine-tune output voltage
- 12 Month Warranty

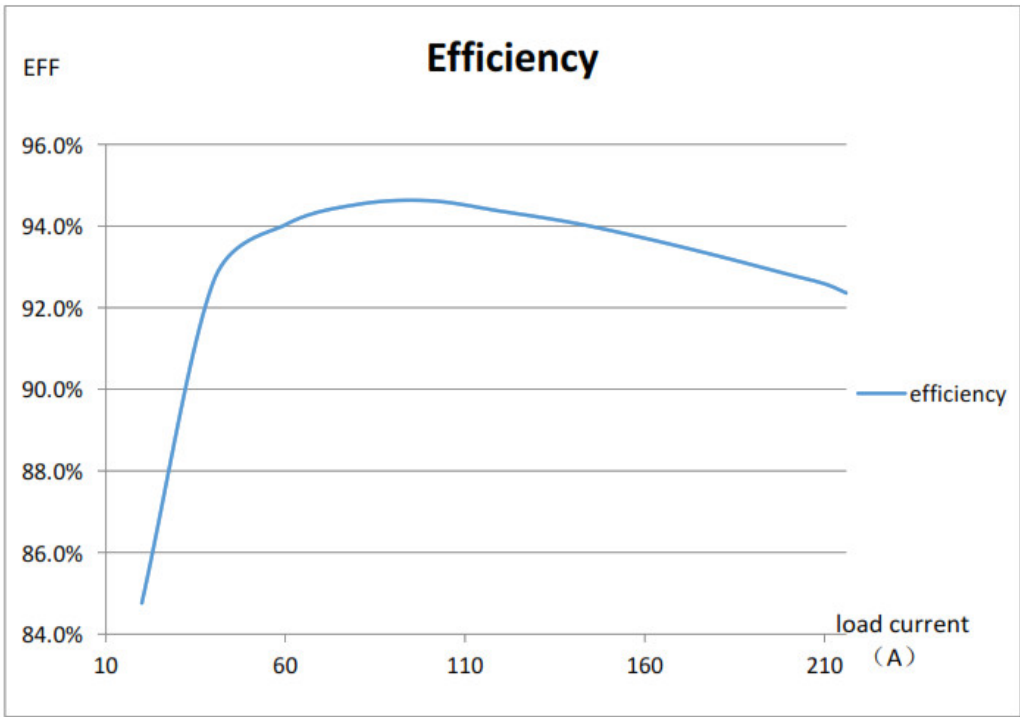
Specifications

Output	DC Voltage	12.25V
	Rated Current (220V input)	216A
	Rated Power (220V input)	2600W
	Rated Current (110V input)	108A
	Rated Power (110V input)	1300W
	Ripple & Noise	<1%
	Voltage Regulation	<2%
	Source Regulation	<1%
	Load Regulation	<1%
	Setup, Rise Time	<55
	Power Off Protection Trip Time	>10mS
	Interface Type	7 pairs of 6 pin PCI-E connectors. 380mm length for each PCI-E cable.
Input	Voltage Range	90-265V AC
	Current Range	10.5-16.5A
	Starting Voltage	100-240V AC
	Frequency Range	47-63Hz
	Power Factor	>0.95(full load)
	Leakage Current	<1.5mA (220V 50Hz)
Protection	Low-voltage Input	90-100V AC
	Output Short Circuit	Yes
	Output Overcurrent (220V input)	216-255A
	Output Overcurrent (110V input)	108-135A
	Overheat Protection	Yes
Environment Conditions	Operating Temperature	-20 – 60°C
	Operating Humidity	20%-90% RH (non-condensing)
Structure	Dimensions	266mm * 125mm * 86mm
	Weight	2.5Kg
Cooling	Fan	Forced-air cooling
	Fan speed	When the temperature of the heat sink is higher than 80 °C, the fan runs at full speed.

Max Load vs. Ambient Temperature Graph (220V input)



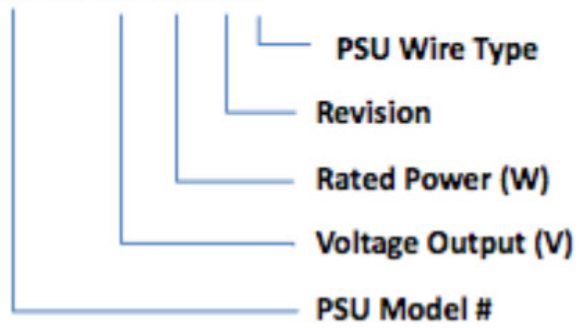
Efficiency vs Load (220V input)



Order Information & Wire Type

Order Information

APW5-12-2600-A2



Wire Types



7 pairs of 6 pin PCI-E connectors.
380mm length for each PCI-E

Trouble Shooting & FAQ

#	Issue	Reason	Troubleshooting
1	Fan won't run, and no 12V output	AC Input is abnormal	<ol style="list-style-type: none"> 1. Make sure the AC input wire has a good connection and the plugs are connected firmly 2. Make sure the mains power is working well and its voltage is above 100V.
2	The fan is running, but there is no 12V output.	<ol style="list-style-type: none"> 1. Voltage in your power system is lower than required 2. PSU is in protection mode 	<ol style="list-style-type: none"> 1. Please check whether the voltage is above 100V with a multimeter to make sure the PSU can switch on correctly. 2. Check whether there is a short circuit output or overload that is causing the PSU to enter a locked status. After removing the problem, the PSU should power up.
3	After a few minutes, the PSU repeatedly stops and starts and keeps cycling.	PSU is in over-heat protection	<ol style="list-style-type: none"> 1. Check whether the fan is working 2. Check whether the fan's vent is being blocked 3. Check whether there is a dust buildup inside the PSU due to prolonged use. Do NOT remove the PSU's cover unless trained to do so. 4. Check that the power and ambient temperatures follow the Load/Temperature graph
4	Output is normal but the fan is not working.	Fan is broken	<ol style="list-style-type: none"> 1. Check that the fan is clear of blockages or buildup 2. Fan is broken and needs to be replaced.
5	The PSU suddenly has no output and can't be started again.	The PSU is in over-current protection.	Check whether the load current has exceeded the built-in overcurrent protection limit. The protection automatically triggers when the load current exceeds the limit to protect against damage to the PSU and the server.

Precautions for Use

1. Before using the PSU, please ensure that the voltage and power outputs are compatible with your equipment.
2. Please ensure that the PSU appears to be in good shape and has not suffered damage in transit. If the exterior of the PSU appears damaged, do not use it.
3. Make sure that the metal cover for the PSU with the on/off switch is properly grounded.
Improper grounding is dangerous.
4. The PSU must be installed in such a way that it receives good, unobstructed airflow.
Under no circumstances should the PSU be installed in an enclosed place.
5. When installing the PSU, please double-check that the output polarities are the correct way round and that the screws are fastened securely in place.
6. Do not attempt maintenance on any wiring while the PSU is powered up from the mains.
7. Running the PSU at <80% load or below can greatly prolong the life of the PSU.
Usually, for every 10°C above the rated amount, the life of the PSU is cut in half.

Regulation:

FCC Notice (FOR FCC CERTIFIED MODELS):

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including

interference that may cause undesired operation.

Note:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

EU WEEE: Disposal of Waste Equipment by Users In Private Household in the European Union



This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will

help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service, or the shop where you purchased the product.

Documents / Resources

	BITMAIN Antminer APW5-12-2600 PSU Series [pdf] User Manual BITMAIN, Antminer, APW5-12-2600, PSU Series
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