

## Alpha Miner PSU-4KBT17 vs. APW9 and APW9+

		PSU-4KBT17(+)	APW9*	APW9+*
OUTPUT 1	DC voltage	14.5V-22V	14.5V-21V	14.5V-21V
	Rated Current (220V input)	250A	170A	170A
	Rated Peak Power (220V+ input)	4000W	3600W	3600W
	Rated Operational Power (220V+ input)	3600W	2900W**	2900W**
	Ripple & Noise	<1%	<1%	<1%
	Source Regulation	<1%	<1%	<1%
	Load Regulation	<1%	<1%	<1%
	Setup, Rise Time	<2S	<2S	<2S
	Power off Protection Trip Time	>10mS	>10mS	>10mS
OUTPUT 2	DC voltage	12.3	12.3	12.3
	Rated Current (220V input)	12A	12A	12A
	Ripple & Noise	<1%	<1%	<1%
	Voltage Accuracy	12.2V - 12.4V	12.2V-12.4V	12.2V-12.4V
	Source Regulation	<1%	<1%	<1%
	Load Regulation	<1%	<1%	<1%
	Setup, Rise Time	<2S	<2S	<2S
	Power off Protection Trip Time	>10mS	>10mS	>10mS
AC INPUT	Input VAC	200-280	200-240	200-240
	Frequency Range	47-63Hz	47-63Hz	47-63Hz
	Power Factor (Full Load)	>0.99	>0.99	>0.99
	Leakage Current (220V 50Hz)	<1.5mA	<1.5mA	<1.5mA
PROTECTIONS	Under Voltage Protection (UVP)	80-89 VAC	80-89 VAC	80-89 VAC
	Short Circuit Protection (SCP)	Yes	Yes	Yes
	Over Temperature Protection (OTP)	Yes	Yes	Yes
	Over Current Protection (OCP)	260A-300A	180-230A	95-130A
OPERATIONAL	Operational Temperature Range	-20-45°C	-20-50°C	-20-60°C

OPERATIONAL ENVIRONMENT	Operating Humidity, RH (non-condensing)	20%-90%	20%-90%	20%-90%
	Altitude	< 2000 m	< 2000m	< 2000m
DIMENSIONS	Size, mm	255 * 252 * 63	249 * 250 * 49	205 * 157 * 43
	Net Weight, Kilo	3.65	3.2	3.2
OTHER	Forced Air Cooling	Yes	Yes	Yes
	Noise	65 dBA	67dBA	67dBA

\* Data from <https://support.bitmain.com/>

\*\* In Alpha Miner testing