



1300W Dual output SMPS with PFC function

**SMPS1K-SN**



- Features



- Universal AC input / Full range
- Built in active PFC function
- High efficiency up to 90%
- Protections: Short circuit / Over temperature / Overload
- Ultra low noise
- ZCS SMPS
- Mosfet synchronous rectifier
- 0.1W power consumption in standby mode
- Daisy chain connector to control multiple units from a single switch (Optional).
- 3W always ON power supply
- Accepts additional output capacitors up to 140000uF based on model
- (W) 22CM X (D) 14CM X (H) 6.5CM

SMPS1K-SN is an **unregulated** SMPS for audio applications operating in ZCS mode.

SMPS1K-SN		
OUTPUT	DC VOLTAGE	Dual +46 / +-56 /+64 / +-70 / +-80 / +87 / +-93, or custom voltage
	RATED CURRENT	16A
	RATED POWER	1300W
	VOLTAGE ADJUST RANGE	+2V (Custom modification)
	VOLTAGE TOLERANCE	+0.5%
	Maximum output current	23A
	Regulated AUX voltage	+12V / +-15V / +-18V 50mA Per rail
	Regulated VDR voltage	+15V 400mA
INPUT	VOLTAGE RANGE	100 ~ 264VAC
	FREQUENCY RANGE	47 ~ 63Hz
	POWER FACTOR (Typ.)	PF>0.96% 230VAC PF>0.99% 120VAC
	EFFICIENCY (Typ.)	89%
	AC CURRENT (Typ.)	13A
	INRUSH CURRENT (Typ.)	25A
PROTECTION	OVERLOAD	105 ~ 140% rated output power Protection type: Latch re-power on to recover
	OVER TEMPREATURE	Protect at 80C , Auto recover at 89C
<b>Safety</b>		
Tested according to <a href="#">EN 62368-1-1:2014+a11:2017</a>		



The SMPS1K-SN is a robust power supply for audio applications.

SMPS1K-SN operates in Zero Current Switching to achieve the highest efficiency.

The custom-made active power factor corrector circuit provides rock-solid voltage regulation across the entire AC-LINE voltage to maintain the same output power at any input voltage.

The SMPS1K-SN has extra juice for you when you need it, its peak output power for the short term is 1600W.

#### What makes this SMPS special

1. Very low voltage drop at the output at the very high current draw.
2. Rock solid PFC output voltage stability at any AC voltage, even if your AC line voltage drops below 80VAC the SMPS will keep running.
3. Zero current switching operation with a custom-made transformer to eliminate the need for the external series inductor.
4. Ultra-low noise.
5. Accepts up to 140000uF at the output for additional sonics improvements.
6. Unregulated SMPS with low voltage drop at high current make this SMPS compete with regulated SMPS while maintaining the best possible dynamics. Thanks to the custom-made PFC circuit.