

## AF30.J (19 inch, 1U, 2(3)kW)

- ☒ 4-pole active filter for STR 30 inverter types
- ☒ 2kW/24VDC; 3kW/48VDC
- ☒ Minimizes the impact of harmonic distortions to the supply bus
- ☒ Stabilizes the inverter power supply voltage and increases the input voltage range
- ☒ Overload protection
- ☒ Mounting type: 19" / 1U
- ☒ Standards: ETS 300 132-2



Inverters with PWM control in general copy the output current curve to the input. The low frequency (50/60Hz) interference is possible to filter using a low pass filter with very high inductance and capacity. This results in a significant increase in size and consequently in weight of the inverter. In addition, there is also a problem with large inrush current after plug in to the power source.

The AF30 active filter effectively prevents the interference transfer with content of higher harmonics to the input. AF30 provides almost DC current source input load (in other words, the inverter at the input acts as a resistive load).

The AF30 considerably expands the inverter's input voltage range, as well as immunity against overvoltage spikes on input.

- Model numbering:
- AF30.J 2420 – 24V input voltage, 2kW output power
  - AF30.J 4830 – 48V input voltage, 3kW output power

AF30 is designed for 19" rack mounting. Connection to input DC voltage and inverter input is on the front panel and allow cables up to 16mm<sup>2</sup>.

MODEL SPECIFICATION	AF30.J 2420	AF30.J 4830
Input voltage	21V-28V	42V-56V
Output power	2000W	3000W
Efficiency	95%	96%
Switching frequency	90kHz	90kHz
No load current / Stand By	200mA	120mA
Operating temperature	-25 +50°C	-25 +50°C
Local signaling	No	No
Remote signaling	No	No
Parallel operation	No	No
Air flow	forced	forced
Overtemperature protection	No	No
Reverse polarity protection	No	No
Mounting type	19" / 1U	19" / 1U
Dimensions W x H x D (mm)	436x44.5x340	436x44.5x340
Weight (kg)	4kg	4kg
Degree of protection	IP20	IP20
Part No.	IP.1441.755.184	IP.1441.755.185

