



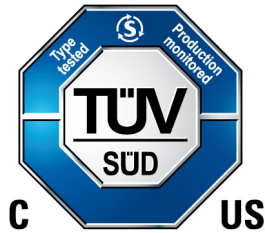
America

CERTIFICATE

No. U8V 061384 0121 Rev. 00

Holder of Certificate: **Unipower LLC**
 210 North University Drive, Suite 700
 Coral Springs, FL 33071
 USA

Certification Mark:



Product: Audio/Video, Information and Communication technology equipment
 AC/DC Switching Power Supply

This product was voluntarily tested to the relevant safety requirements referenced on this certificate. It can be marked with the certification mark above. The mark must not be altered in any way. This product certification system operated by TÜV SÜD America Inc. most closely resembles system 3 as defined in ISO/IEC 17067. Certification is based on the TÜV SÜD "Testing and Certification Regulations". TÜV SÜD America Inc. is an OSHA recognized NRTL and a Standards Council of Canada accredited Certification body.

Test report no.: 72151636A-000

Date, 2020-05-20

(William J. Stinson)



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Model(s): FMP20.24, FMP20.48, FMPe20.48, FMP25.48, FMPe30.48, FMPe30.48S104, FMPe30.48J
maybe followed by "G" indicating RoHS version or "SXXX" or "SXXXG" where X indicates letters/numbers, indicating customer ID

Brand Name: UNIPOWER
Tested according to: CAN/CSA C22.2 No. 62368-1:2014
UL 62368-1:2014
EN 62368-1:2014/A11:2017

Production Facility(ies): 003653, 056242, 103920

Parameters:
Rated Input Voltage: 100-250 V AC
Rated Frequency: 50-60 Hz
Rated Input Current: 16.0 – 9.0 A

GENERAL PRODUCT INFORMATION:

The subject models are front-end rectifiers, for building- in. They can be used on hot-swappable redundant system.

Model Differences:

FMP25.48 is base model.

FMP20.24 is the same as FMP25.48 with the exception of power transformer, input filter layout and lower maximum output power.

FMP20.48 is the same as FMP25.48 except for lower maximum output power.

FMPe20.48 is exactly the same as model FMPe30.48, except for maximum output power, used of single fan, lesser bulk capacitor rail compared to 7 caps per rail on FMPe30.48), power transformers, resonant chokes, PFC choke, bridge rectifier and main PWB side is different).

FMPe30.48 is the same as FMP25.48 with the exception of some input components, PFC choke, power transformer and output power.

FMPe30.48S104 is exactly the same as FMPe30.48 except for the output voltage range.

FMPe30.48J is the same as FMPe30.48 with the exception of output power rating, fan, and fan circuitry.



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Electrical Ratings:

Model	Input			Output	
	VAC	A	Hz	VDC	W
FMP20.24	100-250	13.0 – 9.0	50-60	23.0 - 28.5	2000W
FMP20.48	100-250	16.0 – 9.2	50-60	46.0 – 57.0	2000W
FMPe20.48	100-250	12.5	50-60	46.0 – 57.6	2000W
FMP25.48	100-250	16.0 – 11.5	50-60	46.0 – 57.0	2500 W
FMPe30.48	100-250	16.0 – 11.5	50-60	46.0 – 57.6	2900 W
FMPe30.48S104	100-250	16.0 – 11.5	50-60	30.0 – 50. 0	2900 W
FMPe30.48J	100-250	16.0 – 11.5	50-60	46.0 – 57.6	3000 W

Note: * Maximum output power derated at different input voltages. (see below for derating info.)
 ** Maximum output current at any voltage setting (30-50 VDC) shall not exceed 60 A.

Derating Information:

FMP20-24 – Maximum load		
Input Voltage (VAC)	Maximum Operating Ambient: °C	
	55	65
85-150	1000 W	700 W
150-180	1667 W	1167 W
180-264	2000 W	1400 W

FMP20.48 – Maximum load			
Input Voltage (VAC)	Maximum Operating Ambient: °C		
	50,55	65	75
90-150	1000 W	1000W	750 W
150-180	2000 W	1700 W	1200 W
180-264	2000 W	2000 W	1500 W

FMP25.48, FMP25.48E – Maximum load			
Input Voltage (VAC)	Maximum Operating Ambient: °C		
	50, 55	65	75
90-150	1000 W	1000 W	750 W
150-180	2000 W	1700 W	1200 W
180-264	2500 W	2000 W	1500 W

FMPe30.48, FMPe30.48S104 – Maximum load			
Input Voltage (VAC)	Maximum Operating Ambient: °C		
	55	65	75
85-150	1300 W	1067 W	818 W
150-180	2400 W	2000 W	1400 W
180-264	2900 W	2400 W	1673 W

FMPe30.48J – Maximum load			
Input Voltage (VAC)	Maximum Operating Ambient: °C		
	55	65	75
85-150	1345 W	1104 W	846 W
150-180	2483 W	2069 W	1448 W
180-264	3000 W	2483 W	1731 W

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CONDITIONS OF ACCEPTABILITY

When installed in the end use equipment, the following are among the considerations to be made:

These models require

1. The power supply is to be installed only by trained service personnel, according to manufacturer installation instructions.
2. Evaluated as Class I (earthed equipment). The power supply shall be properly bonded to the main protective earthing terminal in the end system.
3. Temperature tests shall be considered for specific installation conditions in the end system.
4. The front bezel has been evaluated and found compliant with requirements for FIRE, MECHANICAL and ELECTRICAL enclosure. Overall enclosure suitability is to be determined in the end system.
5. All secondary output circuits for all models are SELV.
6. The input and output connectors are not acceptable for field wiring; they are only intended for connection to mating connectors of internal wiring inside the end system.
7. The input and output connectors are suitable for hot swap operation. Connector Current Interruption test was conducted for 100 cycles.
8. The equipment was tested on a listed 50 A branch circuit. If used on a branch circuit with a greater rating, additional testing shall be considered.
9. Limited Short Circuit Test was conducted at 2000 A on Protective Earth trace from the input connector to chassis mounting screw.
10. Production-Line Dielectric Voltage Withstand (Electric Strength) and Grounding (Protective Earthing) Continuity Tests are performed on all models.