



Product Service

# CERTIFICATE

No. B 057396 1040 Rev. 00

**Holder of Certificate:** **XP Power LLC.**  
340 Commerce, Suite 100  
Irvine CA 92602  
USA

**Certification Mark:**



**Product:** **Switching power supply unit**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the Testing, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:** 095-721012619-000

**Valid until:** 2030-06-29

**Date,** 2025-07-10

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**Model(s):**

FLX1K3NAPzzzz-ab

Where:

z indicates output module type, can be a letter

A, B, C, D, F, G, H, J, or O

a indicates between internal modules parallel configurations, can be letter A to F, N, P, Q, or Z

b indicates between internal modules series configurations, can be a letter A to F, N, P, Q or Z

**Brand Name:**

XP



**Parameters:**

Input Voltage: 100-240 VAC  
 Input Frequency: 50/60 Hz  
 Input Current: 10.5 A  
 Output Ratings: See Output Module Ratings  
 Protection Class: Class I at end use  
 Elevation for use: 0-5000 m  
 Maximum Ambient Temperature: Full-rated output load: 50°C  
 Half-rated output load: 70°C

**License Conditions or Model Matrix:**

**Output Module Ratings:**

Module	Output Ratings		
Module A:	12 VDC	21.7 A max	260 W max
Module B:	15 VDC	22.0 A max	330 W max
Module C:	18 VDC	13.5 A max	243 W max
Module D:	24 VDC	13.8 A max	330 W max
Module F:	30 VDC	6.9 A max	207 W max
Module G:	36 VDC	6.9 A max	249 W max
Module H:	48 VDC	6.9 A max	330 W max
Module J:	60 VDC	5.5 A max	330 W max
Module O:	Blank plate, no module provided		

**Engineering Conditions of Acceptability**

When installed in an end-product, consideration must be given to the following:

- End product Risk Management Process to include consideration of requirements specific to the Power Supply.
- End product Risk Management Process to consider the need for simultaneous fault condition testing.
- End product Risk Management Process to consider the need for different orientations of installation during testing.
- The product was not investigated to the following standards or clauses: Electromagnetic Compatibility (IEC 60601-1-2), Usability (IEC 60601-1-6), Biocompatibility (ISO 10993-1), Medical device software – Software life cycle processes (IEC 62304), Usability
- The end-product shall consider that: Marking (clause 7) and Separation (clause 8) requirements as part of the end use application evaluation
- Creepage and clearance distances were based on a maximum working voltage of: T101: 632Vpk/355Vrms between primary and secondary; Planar T201: 840Vpk/414Vrms; Primary to GND: 340Vpk/240Vrms
- The following tests shall be performed in the end-product evaluation: Cleaning test, Marking Durability and Marking Legibility Testing, repeat of leakage current testing and consideration of non-frequency weighted leakage, Measuring the temperature on power electronic components and transformer windings when the power supply is installed in the end-use equipment, Repeat of Protective Earthing, Dielectric Voltage Withstand test



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- The unit is considered acceptable for use at on a max branch circuit of: 20A
- The unit is considered acceptable for use in a max ambient of 50°C ambient at Full Rated Output and 50% of the Rated Output in 70°C ambient. See Enclosure Misc ID 7-01
- End-product temperature tests for power supplies shall consider that the following transformers employ the indicated insulation system: T101: Class F
- End-product dielectric strength tests shall be based on the maximum working voltage of: T101: 632Vpk/355Vrms between primary and secondary; Planar T201: 840Vpk/414Vrms; Primary to GND: 340Vpk/240Vrms
- This power supply was evaluated with Two MOPP between Primary and Secondary; One MOPP primary and Earth.
- The product was tested with internal fan normal airflow mode only. Other airflow configuration shall be done under the end application.
- Fire/ Mechanical/ Electrical Enclosure to be provided as part of the end product.
- Printed Wiring Boards rated min 130°C. Electrolytic Capacitors rated min 105°C. All inductors providing Functional Insulation are suitable up to 130°C.
- Maximum Series connected voltage is 120Vdc. The accessibility and insulation shall be considered during the end application.

**Tested according to:** EN 60601-1:2006/A2:2021

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