ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Product Service

C E R T I F I C A T E

No. B 057396 1039 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

Test report no.: 095-721012228-000

Valid until: 2030-06-23

Date, 2025-07-01

(Mandy Zhao)

TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

Product Service

C E R T I F I C A T E

No. B 057396 1039 Rev. 00

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 75% of output load: 60°C Half-rated output load: 70°C

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:

- The following product-line tests are conducted for this product: electric strength
- The end-product electric strength test is to be based upon a maximum working voltage of primary-earthed dead metal: 240 Vrms, 340 Vpk, primary-SELV: T101: 632 Vpk / 355 Vrms; Planar T201: 840 Vpk / 414 Vrms
- The following output circuits are at ES1 energy levels: all outputs, unless connected in series. See below C of A max voltage
- The following output circuits are at ES2 energy levels: all outputs, for certain combinations of output modules connected in series.
- The following output circuits are at PS3 energy levels: all outputs
- The maximum investigated branch circuit rating is: 20 A
- The investigated pollution degree is: 2
- Proper bonding to the end-product main protective earthing termination is required (Class I)

TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

Product Service

C E R T I F I C A T E

No. B 057396 1039 Rev. 00

- An investigation of the protective bonding terminals has been conducted
- The following input terminals/connectors must be connected to the end-product supply neutral terminal marked “N” on the supply connector (TB1)
- The following end-product enclosures are required: mechanical, fire, electrical
- The following magnetic devices (e.g. transformers or inductor) are provided with an OBJY2 insulation system with the indicated rating greater than Class A (105°C): T101 (Class F)
- The equipment is suitable for direct connection to AC mains supply
- The power supply was evaluated to be used at altitudes up to 5000 m
- When installed in a Class I end product, the power supply shall be mounted in a manner that provides the basic insulation required clearance between the primary side of power supply and protectively earthed accessible conductive parts.
- A suitable main disconnect device shall be provided in the end product
- The power supplies covered by this report have a fuse in the neutral of the primary circuit. The need for a marking to warn a service person of the hazards associated with double pole/neutral fusing shall be considered in the end product.
- Consideration to repeating the touch current test should be given in the end-product evaluation
- The power supplies in this report have been subject to capacitance discharge testing. However, the end product shall be considered to repeat test if additional AC inlet with line filter circuit will be used in the end application.
- Printed wiring boards rated min 130°C. Electrolytic capacitors rated min. 105°C. All inductors providing functional insulation are suitable up to 130°C.
- The supply terminal (TB1) is suitable for factory wiring. TB1 and the output terminals and/or connectors have not been investigated for field wiring.
- Temperature, Leakage, Earthing, Mechanical, Marking and Dielectric tests are to be considered as part of the end product, investigation.
- Maximum series connected voltage is 120 VDC. The accessibility and insulation shall be considered during the end application.
- Earthing conductor and further testing need to be considered in the end application
- Models FLX1K3NAPBDHJ-ZZ and FLX1K3NAPBDJJ-ZC were used for test purposes and are considered representative of the entire series with horizontal position, the need to repeat testing on other model configuration and orientation shall be done in the end application
- Internal DC fan is MS3, further consideration shall be done in the end application.

Tested according to: EN IEC 62368-1:2024/A11:2024

TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

TÜV®