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Product Service

C E R T I F I C A T E

No. B 057396 0653 Rev. 00

Holder of Certificate: **XP Power LLC.**
15641 Red Hill Avenue, Suite 100
Tustin CA 92780
USA

Certification Mark:

Product: **Switching power supply unit (Switching Power Supply)**

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 and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 7191260723-TR

Valid until: 2026-06-07
Date, 2021-06-10

(KIM HOCK TEO)

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Model(s): **FCB100US12, FCB100US15, FCB100US19, FCB100US24, FCB100US28, FCB100US33, FCB100US36 and FCB100US48, may or may not be followed by suffix "SF".**

Brand Name: **XP Power**

Parameters:

Input: 100-240 Vac, 50/60 Hz, 2.1A

Output:
FCB100US12: 12Vdc (10.1 Vdc - 13.5 Vdc), 7.5A Convection, 8.3A Forced-cooled;
FCB100US15: 15Vdc (13.6 Vdc - 17 Vdc), 6.0A Convection, 6.7A Forced-cooled;
FCB100US19: 19Vdc (17.1 Vdc - 21 Vdc), 4.7A Convection, 5.3A Forced-cooled;
FCB100US24: 24Vdc (21.1 Vdc - 26 Vdc), 4.0A Convection, 4.2A Forced-cooled;
FCB100US28: 28Vdc (26.1 Vdc - 31 Vdc), 3.4A Convection, 3.6A Forced-cooled;
FCB100US33: 33Vdc (31.1 Vdc - 33 Vdc), 2.8A Convection, 3.0A Forced-cooled;
FCB100US36: 36Vdc (33.1 Vdc - 42 Vdc), 2.6A Convection, 2.8A Forced-cooled;
FCB100US48: 48Vdc (42.1 Vdc - 54 Vdc), 2.0A Convection, 2.1A Forced-cooled.
Additional Suffix "SF" denotes units provided with only a single line side fuse.

Additional technical considerations

- The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of : 40°C ambient at Full Rated Output (for Convection Cooling) as well as additional elevated ambient conditions - for de-rated output loading conditions see report Enclosure Miscellaneous – 7-05 for details.
- The product is intended for use on the following power systems : TN, IT, TT
- Considered current rating of protective device as part of the building installation (A) : 20
- Mains supply tolerance (%) or absolute mains supply values : +10%/-10%
- The power supply series covered by this report employ Double/Reinforced Insulation between Primary and Secondary circuits. Additionally evaluated for Basic Insulation between Line and Neutral up to and across the fuse (F1) per internal requirements of XP Power engineering specifications.
- The clearance distances have additionally been assessed for suitability up to 5000 m elevation (1.48 correction factor as per IEC 60664-1, Table A2).

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 following output circuits are at ES1 energy levels : All
- The following output circuits are at PS2 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 when installed in a Class I end product.
- The following input terminals/connectors must be connected to the end-product supply neutral : CON1

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- The following end-product enclosures are required : Electrical, Fire
- 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) : Transformer T1 (Class F, 155)
- The power supply was evaluated to be used at altitudes up to : 5,000 m
- The power supply is provided with a fuse in both the line and neutral of the primary circuit. The need for a marking warning service person of the hazards associated with neutral fusing shall be considered in the end-product.
- Heating (Thermal Requirements) Test was not conducted on power supply with input/output leads. If power supply is provided with input and/or output leads, then temperature on leads must be measured and cannot exceed 105°C.
- When installed in a Class II end product, the power supply shall be mounted in a manner that provides sufficient clearance and creepage distance between the hazardous parts of the power supply and accessible conductive parts of the end product.
- The end-product Electric Strength Test is to be based upon a Transient Voltage of 2500Vpk (OVC II).

Tested according to: EN 62368-1:2014/A11:2017

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