



Product Service

CERTIFICATE

No. B 057396 0882 Rev. 00

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

Certification Mark:



Product: **Power supply
(Open Frame 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.: 7191311751-TR

Valid until: 2024-07-05

Date, 2023-07-04

(Kim Hock Teo)



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Model(s): VFB150PSXXYYYYYYYY, where XX can be 12, 15, 24, 48 and Y is blank, - or any alpha numeric character

Brand Name: XP Power

Parameters:

1) Input: 100-240 Vac, 2.1 A, 50/60 Hz
Maximum Output Load conditions:

Convectional Cooled at Tma=50°C :

VFB150PS12: 12 Vdc, 8.4 A (*1)
VFB150PS15: 15 Vdc, 6.7 A
VFB150PS24: 24 Vdc, 4.17 A
VFB150PS48: 48 Vdc, 2.08 A

Convectional Cooled at Tma=70°C :

VFB150PS12: 12 Vdc, 4.15 A
VFB150PS15: 15 Vdc, 3.35 A
VFB150PS24: 24 Vdc, 2.08 A
VFB150PS48: 48 Vdc, 1.04 A

Force Air Cooled at Tma=50°C :

VFB150PS12: 12 Vdc, 12.5A
VFB150PS15: 15 Vdc, 10 A
VFB150PS24: 24 Vdc, 6.25 A
VFB150PS48: 48 Vdc, 3.13 A

Force Air Cooled at Tma=70°C :

VFB150PS12: 12 Vdc, 6.25 A
VFB150PS15: 15 Vdc, 5 A
VFB150PS24: 24 Vdc, 3.13 A
VFB150PS48: 48 Vdc, 1.57 A

(*1): Rating 8.3A but test was perform at higher current at 8.4A per manufacturer's request.

The maximum ambient temperature (Tma) specified by the maufacturer is 50°C for full load, 70°C for half load.

Technical Considerations

- The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of : 50°C at 100% loading; 70°C at 50% loading
- The product is intended for use on the following power systems : TN
- 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 equipment disconnect device is considered to be : determined in the end-product.

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



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- The following output circuits are at ES1 energy levels : all outputs
- The following output circuits are at PS3 energy levels : All Output
- 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)
- An investigation of the protective bonding terminals has : not been conducted
- The following input terminals/connectors must be connected to the end-product supply neutral : AC N
- The following end-product enclosures are required : Electrical, Fire, Mechanical
- The following magnetic devices (e.g. transformers or inductor) are provided with an OBJ2 insulation system with the indicated rating greater than Class A (105°C) : T1, class B
- The equipment is suitable for direct connection to : AC mains supply
- The power supply was evaluated to be used at altitudes up to : "5,000 m"
- When installed in a Class I end product, the power supply shall be mounted in a manner that provides the minimum 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 and touch voltage test should be given in the end-product evaluation.

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