



Product Service

CERTIFICATE

No. B 057396 0555 Rev. 00

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

Certification Mark:



Product: **Power supply**
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. See also notes overleaf.

Test report no.: 095-72143919103-000

Valid until: 2024-05-12

Date, 2019-05-16 (Adrian Rabago Valenzuela)



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Model(s):

ECP20UX

Where X is S03, S05, S09, S12, S15, S24, S30, S48, D12, D15, D24

Brand Name:

XP



Rated Input: 100-240 Vac

Rated Input Current: 0.4 A

Rated Input Frequency: 50-60 Hz

DC Output Ratings: See table for output ratings

Elevation for use: 0-3048 m for above sea level

Protection Class: Class I determined in end product or Class II

Maximum temperature,
ambient: 50°C with 100% rated output

General Product information:

The model covered in this report is a component power supply intended for use in Audio/video, information and communication technology equipment. It is an open frame power supply intended for building-in Class I or Class II end-products.

Rated Outputs for Models:

Model	Rated Voltage (Vdc)	Rated Current (A)
ECP20US03	3.3	4
ECP20US05	5	4
ECP20US09	9	2.23
ECP20US12	12	1.67
ECP20US15	15	1.34
ECP20US24	24	0.84
ECP20US30	30	0.67
ECP20US48	48	0.42
ECP20UD12	+12 -12	0.84 0.84
ECP20UD15	+15 -15	0.67 0.67
ECP20UD24	+24 -24	0.42 0.42



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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
- The product is intended for use on the following power systems : TN
- The equipment disconnect device is considered to be : To be determined in the end-product.
- Required Clearances have been adjusted by multiplying the clearance at sea level by a factor of 1.15 for operating at an altitude of 3048 meters. The correction factor is based on barometric pressure of 70kPa. If the calculated Clearance exceeded the Creepage, the Creepage was adjusted to the value of clearance.
- Power supplies covered by this report were evaluated for both Class I and Class II (double insulated). Double insulated symbol is optionally provided. Earthing symbol may only be provided for Class I power supplies

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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 Outputs
- 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)
- 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 : 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) : TR1, L2 - Class 130 (B).
- The power supply was evaluated to be used at altitudes up to : "3048 m"



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- 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.
- Heatsinks are floating and considered live. They should not be accessible in the end-product.
- A suitable main disconnect device shall be provided 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. Additionally, all associated component safeguards have been assessed to the applicable requirement in Annex G.10. Additional testing should not be needed if directly connected to mains e.g. using an appliance inlet, wiring terminals, etc.
- When installed in a Class II end product, the power supply shall be mounted on insulating posts in a manner that provides the minimum required Clearance between the power supply and any accessible conductive parts

Tested according to:

EN 62368-1:2014/A11:2017

**Production
Facility(ies):**

003227, 071712, 089850