



Product Service

CERTIFICATE

No. B 057396 0378 Rev. 02

Holder of Certificate: **XP Power LLC.**

340 Commerce, Suite 100
Irvine CA 92602
USA

Certification Mark:



Product: **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, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 7191329786-04-TR

Valid until: 2026-01-07

Date, 2024-06-07

(Kim Hock Teo)

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Model(s):

ECx40Uyz, ECx60Uyzz

Where x is C or M. No differences exist between C and M models other than model designation, not affecting safety; y is D or T representing dual or tripple outputs provided, respectively; zz is 21, 22, or 31 – 37 representing output configuration.

All models are identical except output electrical rating, designation, and may be provided with either dual or triple outputs. Models rated 40 W are identical in construction to models rated 60 W and differ for marketing purposes only.

Brand Name:

XP

Parameters:

Rated Input Voltage: 100-240 VAC

Rated Input Current: ECx40Uyzz: 1 A

ECx60Uyzz: 1.5 A

Rated Frequency: 50/60 Hz

Protection Class: Class I or Class II at end system

Output Ratings:

Model Number (ECM or ECC)	Output 1	Output 2	Output 3	Maximum Power
	V(V) / I max(A)	V(V) / I max(A)	V(V) / I max(A)	
ECM40UD21	5.0V/6.0A	12.0V/2.0A	—	40 W
ECM40UD22	5.0V/6.0A	15.0V/1.5A	—	
ECM40UT31	5.0V/6.0A	12.0V/2.0A	-12.0V/0.5A	
ECM40UT32	5.0V/6.0A	24.0V/1.0A	-12.0V/0.5A	
ECM40UT33	5.0V/6.0A	15.0V/1.5A	-15.0V/0.5A	
ECM40UT34	5.0V/6.0A	5.0V/1.5A	12.0V/0.5A	
ECM40UT35	5.0V/6.0A	3.3V/1.5A	12.0V/0.5A	
ECM40UT36	5.0V/6.0A	12.0V/2.0A	24.0V/0.5A	
ECM40UT37	5.0V/6.0A	24.0V/1.0A	12.0V/0.5A	
ECM60UD21	5.0V/8.0A	12.0V/3.0A	—	60 W
ECM60UD22	5.0V/8.0A	15.0V/2.5A	—	
ECM60UT31	5.0V/8.0A	12.0V/3.0A	-12.0V/0.5A	
ECM60UT32	5.0V/8.0A	24.0V/1.5A	-12.0V/0.5A	
ECM60UT33	5.0V/8.0A	15.0V/2.5A	-15.0V/0.5A	
ECM60UT34	3.3V/8.0A	+5.0V/3.0A	12.0V/0.5A	
ECM60UT35	5.0V/8.0A	+3.3V/1.5A	12.0V/0.5A	
ECM60UT36	5.0V/8.0A	12.0V/1.5A	24.0V/0.5A	
ECM60UT37	5.0V/8.0A	24.0V/1.5A	12.0V/0.5A	
Note: for ±12V output, voltage range ±(10.1-13.5)V; for ±15V output, voltage range ±(13.6-17)V, for 24 V output, voltage range (21.1-26)V				

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Temperature, Ambient:

Tma = Manufacturers Rated Ambient

40 W Models:

Tma = 60°C at 100% load (40 W), Convection cooling (no external forced air cooling)

Tma = 70°C at 75% load (30 W), Convection cooling (no external forced air cooling)

Tma = 70°C at 100% load (40 W), Forced air cooling

Tma = 80°C at 75% load (30 W), Forced air cooling

60 W Models:

Tma = 50°C at 100% load (60 W), Convection cooling (no external forced air cooling)

Tma = 70°C at 50% load (30 W), Convection cooling (no external forced air cooling)

Tma = 60°C at 100% load (60 W), Forced air cooling

Tma = 80°C at 50% load (30 W), Forced air cooling

Forced air cooling consists of an external fan blowing 132 LFM over the power supply input to output, placed approximately 1 foot from power supply.

Conditions of Acceptability:

- Power supplies covered by this report were evaluated for both Class I or Class II (double insulated). Double insulated symbol is optionally provided. Earthing symbol may only be provided for Class I power supplies.
- The following output circuits are at ES1 energy levels: All.
- The following output circuits are at PS3 energy levels: All.
- The maximum investigated branch circuit rating is: 20 A
- The investigated Pollution Degree is: 2
- When installed in an end-product, a suitable main disconnect device shall be provided in the end product.
- Proper fire, mechanical, and electrical enclosure are required at end-product.
- The power supplies approved are provided with fuse in the neutral of the primary circuit. The proper warning to service persons should be marked on the end product when it is applicable.
- The clearance and creepage distance between the unit and other circuits need to be evaluated at end system.

For CLASS I installation:

The power supply shall be mounted on insulating posts that provide sufficient clearance and creepage distance between live parts and accessible conductive parts when installed in a Class II end product.

For CLASS II Installation:

The power supply shall be mounted on insulating posts that provide sufficient clearance and creepage distance between live parts and accessible conductive parts when installed in a Class II end product.



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