



Product Service

CERTIFICATE

No. B 057396 0376 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.: 7191329786-05-TR

Valid until: 2026-01-07

Date, 2024-06-07

(Kim Hock Teo)



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Model(s):

ECM100Uxy Series

(where xx can be D2, T3 or Q4 represent different outputs, y can be 1-7 for output voltage variation; Model number can be followed with suffix (3X5) or * for PWB size or alternate trace layout).

Brand Name:

XP

Parameters:

Rated Input Voltage: 100-240 V AC

Rated Input Current: 2.2 A max

Rated input frequency: 50/60 Hz

Rated Output Ratings: See below

Elevation for use: 0-3048m above sea level

ECM100Uxy Series DC output ratings									
Model Number	V1		V2		V3		V4		Power W
	Vdc	A	Vdc	A	Vdc	A	Vdc	A	
ECM100UD21	5.0	12.0	12.0	3.0	—	—	—	—	100
ECM100UD22	5.0	12.0	15.0	3.0	—	—	—	—	100
ECM100UT31	5.0	10.0	12.0	3.0	-12.0	0.8	—	—	100
ECM100UT32	5.0	10.0	24.0	2.0	-12.0	0.8	—	—	100
ECM100UT33	5.0	10.0	15.0	3.0	-15.0	0.8	—	—	100
ECM100UT34	3.3	10.0	5.0	5.0	12.0	0.8	—	—	100
ECM100UT35	5.0	10.0	3.3	5.0	12.0	0.8	—	—	100
ECM100UT36	5.0	10.0	12.0	3.0	-5.0	0.8	—	—	100
ECM100UT37	5.0	10.0	15.0	3.0	-5.0	0.8	—	—	100
ECM100UQ41	5.0	10.0	3.3	5.0	12.0	0.8	-12.0	0.5	100
ECM100UQ42	3.3	10.0	5.0	5.0	12.0	0.8	-12.0	0.5	100
ECM100UQ43	5.0	10.0	24.0	2.0	12.0	0.8	-12.0	0.5	100
ECM100UQ44	5.0	10.0	24.0	2.0	15.0	0.8	-15.0	0.5	100
ECM100UQ45	5.0	10.0	12.0	3.0	-12.0	0.8	-5.0	0.5	100
ECM100UQ46	5.0	10.0	15.0	3.0	-15.0	0.8	-5.0	0.5	100

Notes:
Maximum 100 W combined output power with 5 cfm external forced air-cooling.
Tma 60°C at 100 W (with fan).
Tma 80°C with output de-rated to 50 W (with fan).
Tma 50°C with output de-rated to 80 W, convection cooling (without fan).
Tma 70°C with output de-rated to 40 W, convection cooling (without fan).

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Model Differences:

All models are similar except the number of outputs (2, 3 or 4), output voltage/current rating and corresponding PWB population. (3x5) version differs only by PWB size, mounting hole locations and additional ground trace between mounting pads. * version differs only by secondary circuit trace layout, not provided with Basic/Supplementary Insulation between secondary circuits to mounting pads.

D2 represent dual output version.

T3 represent triple output version.

Q4 represent quad output version.

y represents output voltage variation.

Conditions of Acceptability:

When installing the equipment, all requirements of the standards and the manufacturer's specifications must be met:

- 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
- Proper bonding to the end-product main protective earthing termination is : Required (Class I)
- 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
- When installed in an end-product, a suitable main disconnect device shall be provided in the end product.
- 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.
- 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.
- 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.
- 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.

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