



Product Service

CERTIFICATE

No. B 057396 0588 Rev. 00

Holder of Certificate: **XP Power LLC.**
15641 Red Hill Avenue, Suite 100
Tustin CA 92780
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. See also notes overleaf.

Test report no.: 095-72157890-000

Valid until: 2025-03-10

Date, 2020-03-13


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Model Differences:

Model ECM40USxx Series and Model ECM60USxx Series are identical with exception to input and output ratings, all models may be followed by suffix "-W".

All models in Model ECM40USxx and Model ECM60USxx series are identical with exception to the Mains Transformer, T1, and minor secondary components that allow for different output voltage ratings.

Models followed by "-W" are optionally provided with two Y1 bridging capacitors (C22 and C23) and provide 2 MOPP between primary and secondary and Models without the "-W" are provided with one Y1 bridging capacitors (C17) and provide 1 MOPP between primary and secondary.

Model ECM60USxx Series is identical to Model ECM60USxx (3X5) with exception to Model ECM60USxx (3X5) being provided on a 3 by 5 in. printed wiring board.

Model ECM40US24-XB0194 is identical to Model ECM40US24-W with exception to the board layout, provided earthed heatsink construction, and modification to the output voltage and current rating.

Conditions of Acceptability:

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

The models require:

- A suitable electrical and fire enclosure must be provided in the end use equipment.
- Models without the suffix "- W" are evaluated for 1 MOPP between primary and secondary. The end product evaluation shall consider the need for additional protection.
- Power supply Models with the suffix "- W" are provided with two Y1 bridging capacitor (C22 and C23) and evaluated with Two MOPP between Primary and Secondary; One MOPP primary and Earth. Models without the suffix "- W" are provided with one Y1 bridging capacitor (C17) and evaluated for 1 MOPP between primary and secondary and 1 MOPP between primary and earth.
- This power supply has been evaluated as a continuous operation, ordinary equipment and has not been evaluated for use in the presence of a flammable anesthetic mixture with air, oxygen, or nitrous oxide. The output circuits have not been evaluated for direct patient connection (Type B, BF or CF).
- The available voltage for the secondary outputs does not exceed 25 Vac or 60 Vdc, under normal and single fault conditions.
- The output connectors are not acceptable for field connections; they are only intended for connection to mating connectors of the end-use equipment.
- Proper bonding to the end-product main protective earthing terminal is required when the power supply is installed in the Class I end product.
- Repeat of dielectric voltage withstand and leakage current testing and consideration of non-frequency weighted leakage current test (Clause 8.7.3e) shall be considered in the end product application.
- For Model ECM40US24 -XB0194: Heat Sink (HS1) to be protectively earthed as part as end product evaluation.
- When installed in a Class I end product, the power supply shall be mounted in a manner that provides, sufficient clearance and Creepage between the primary sides 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 sufficient Clearance and creepage between the power supply and any accessible conductive parts.
- The end product shall ensure the requirements related to accompanying documents, clause 7.9.
- The product was not investigated to the following standards or clauses: Biocompatibility (ISO 10993-1), Clause 14, Programmable Electronic Systems, Electromagnetic Compatibility (IEC 60601-1-2).

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