



CERTIFICATE

No. B 057396 0586 Rev. 00

Holder of Certificate:

XP Power LLC.

15641 Red Hill Avenue, Suite 100

Tustin CA 92780

USA

Certification Mark:



Product:

Switching power supply unit (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. See also notes overleaf.

Test report no.:

081-200101-000

Valid until:

2024-12-02

Date,

2020-01-14

(Watson Yang)



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Model(s): ECH450PSxxz

("xx" can be 12, 15, 19, 24, 36, 48, 54 or 56

to denote different output voltage; "z" can be -C (case with no fan),

-TF (case with top fan), -EF (case with side fan)

or blank (open frame))

Brand Name: XP Power

Parameters: Rated input voltage: 100-240 Vac

Rated frequency: 50-60 Hz Rated input current: 5.3-2.2 A

Protection class: Max. ambient temperature: 50 °C Degree of Protection: IPX0 Rated outputs of models: See below



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Model-#	Output Rated
ECH450PS12	12 Vdc, 20.8 A (without air flow)
	12 Vdc, 37.5 A (with air flow)
	12 Vdc, 0.6 A (for Fan)
	5 Vdc, 1 A
ECH450PS12-C	12 Vdc, 20.8 A (without air flow)
	5 Vdc, 1 A
ECH450PS12-TF	12 Vdc, 37.5 A (with Fan)
EGN450P3 12-1F	5 Vdc, 1 A
ECH450PS12-EF	12 Vdc, 37.5 A (with Fan)
EG11430F G12-E1	5 Vdc, 1 A
	15 Vdc, 16.6 A (without air flow)
ECH450PS15	15 Vdc, 30 A (with air flow)
	12 Vdc, 0.6 A (for Fan)
	5 Vdc, 1 A
 ECH450PS15-C	15 Vdc, 16.6 A (without air flow)
20114301 013-0	5 Vdc, 1 A
 ECH450PS15-TF	15 Vdc, 30 A (with Fan)
LOT1430F313-11	5 Vdc, 1 A
 ECH450PS15-EF	15 Vdc, 30 A (with Fan)
20114301 013-21	5 Vdc, 1 A
	19 Vdc, 13 A (without air flow)
ECH450PS19	19 Vdc, 23.7 A (with air flow)
	12 Vdc, 0.6 A (for Fan)
	5 Vdc, 1 A
ECH450PS19-C	19 Vdc, 13 A (without air flow)
20114301 319-0	5 Vdc, 1 A
ECH450PS19-TF	19 Vdc, 23.7 A (with Fan)
	5 Vdc, 1 A
ECH450PS19-EF	19 Vdc, 23.7 A (with Fan)
	5 Vdc, 1 A



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Model-#	Output Rated
ECH450PS24	24 Vdc, 10.4 A (without air flow)
	24 Vdc, 18.8 A (with air flow)
	12 Vdc, 0.6 A (for Fan)
	5 Vdc, 1 A
ECH450PS24-C	24 Vdc, 10.4 A (without air flow)
	5 Vdc, 1 A
ECH450PS24-TF	24 Vdc, 18.8 A (with Fan)
	5 Vdc, 1 A
ECH450PS24-EF	24 Vdc, 18.8 A (with Fan)
	5 Vdc, 1 A
	36 Vdc, 6.9 A (without air flow)
ECH450PS36	36 Vdc, 12.5 A (with air flow)
20114301 030	12 Vdc, 0.6 A (for Fan)
	5 Vdc, 1 A
ECH450PS36-C	36 Vdc, 6.9 A (without air flow)
	5 Vdc, 1 A
ECH450PS36-TF	36 Vdc, 12.5 A (with Fan)
20114301 030-11	5 Vdc, 1 A
ECH450PS36-EF	36 Vdc, 12.5 A (with Fan)
	5 Vdc, 1 A
ECH450PS48	48 Vdc, 5.2 A (without air flow)
	48 Vdc, 9.4 A (with air flow)
2011-301 0-0	12 Vdc, 0.6 A (for Fan)
	5 Vdc, 1 A
ECH450PS48-C	48 Vdc, 5.2 A (without air flow)
2014301 340-0	5 Vdc, 1 A
ECH450PS48-TF	48 Vdc, 9.4 A (with Fan)
	5 Vdc, 1 A
ECH450PS48-EF	48 Vdc, 9.4 A (with Fan)
	5 Vdc, 1 A



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Model-#	Output Rated
ECH450PS54	54 Vdc, 4.6 A (without air flow)
	54 Vdc, 8.3 A (with air flow)
	12 Vdc, 0.6 A (for Fan)
	5 Vdc, 1 A
ECH450PS54-C	54 Vdc, 4.6 A (without air flow)
	5 Vdc, 1 A
ECH450PS54-TF	54 Vdc, 8.3 A (with Fan)
EC11430F334-11	5 Vdc, 1 A
ECH450PS54-EF	54 Vdc, 8.3 A (with Fan)
EC11430F334-E1	5 Vdc, 1 A
,	56 Vdc, 4.5 A (without air flow)
ECH450PS56	56 Vdc, 8 A (with air flow)
20114301 330	12 Vdc, 0.6 A (for Fan)
	5 Vdc, 1 A
ECH450PS56-C	56 Vdc, 4.5 A (without air flow)
20114001 000-0	5 Vdc, 1 A
ECH450PS56-TF	56 Vdc, 8 A (with Fan)
LOT1430F330-1F	5 Vdc, 1 A
ECH450PS56-EF	56 Vdc, 8 A (with Fan)
	5 Vdc, 1 A

License Conditions:

- 1. The product provides Means of Patient Protection (MOPP).
- 2. The product has specified to operate at altitude ≤ 5,000 m
- 3. The product does not have direct connection to the patient.
- 4. Compliance with EMC requirements needs to be evaluated for the end use product.
- 5. Risk Management was included in this investigation.
- 6. The following clauses were not part of the manufacturers order and therefore excluded from this testing:
 - 11.7: Biocompatibility of ME EQUIPMENT and ME SYSTEMS
 - 12.2: USABILITY
 - 17: Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS

EN 60601-1:2006/A1:2013 Tested according to:

Production

082809

Facility(ies):

