



Product Service

# CERTIFICATE

No. B 057396 0585 Rev. 01

**Holder of Certificate:** **XP Power LLC.**  
340 Commerce, Suite 100  
Irvine CA 92602  
USA

**Certification Mark:**



**Product:** **Adaptors**  
**( 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. 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](http://www.tuvsud.com/ps-cert)

**Test report no.:** 6121024053901

**Valid until:** 2026-01-06

**Date,** 2024-09-26

( Ralph Lai )

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**Model(s):** ECH450PSxxz  
(‘xx’ can be 12, 15, 19, 24, 36, 48, 54 or 56 to denote different output voltage;  
‘y’ 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 V~
Rated input current:	5.3-2.2 A
Rated frequency:	50-60 Hz
Rated outputs:	See below
Protection class:	I
Max. ambient temperature:	50 °C
Degree of protection against ingress of liquids:	IPX0

**Remarks:**

- 1) When installing, all requirements of below mentioned test standards must be fulfilled.
- 2) The equipment is evaluated for operating in altitude up to 5,000 m above the sea level.

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

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The output rating of the models are as below:

Models	Output Rated
ECH450PS12	12 V $\overline{\text{---}}$ 20.8 A (without air flow) or 12 V $\overline{\text{---}}$ 37.5 A (with air flow)
	12 V $\overline{\text{---}}$ 0.6 A (for Fan)
	5 V $\overline{\text{---}}$ 1 A
ECH450PS12-C	12 V $\overline{\text{---}}$ 20.8 A (without air flow)
	5 V $\overline{\text{---}}$ 1 A
ECH450PS12-TF	12 V $\overline{\text{---}}$ 37.5 A (with Fan)
	5 V $\overline{\text{---}}$ 1 A
ECH450PS12-EF	12 V $\overline{\text{---}}$ 37.5 A (with Fan)
	5 V $\overline{\text{---}}$ 1 A
ECH450PS15	15 V $\overline{\text{---}}$ 16.6 A (without air flow) or 15 V $\overline{\text{---}}$ 30 A (with air flow)
	12 V $\overline{\text{---}}$ 0.6 A (for Fan)
	5 V $\overline{\text{---}}$ 1 A
ECH450PS15-C	15 V $\overline{\text{---}}$ 16.6 A (without air flow)
	5 V $\overline{\text{---}}$ 1 A
ECH450PS15-TF	15 V $\overline{\text{---}}$ 30 A (with Fan)
	5 V $\overline{\text{---}}$ 1 A
ECH450PS15-EF	15 V $\overline{\text{---}}$ 30 A (with Fan)
	5 V $\overline{\text{---}}$ 1 A
ECH450PS19	19 V $\overline{\text{---}}$ 13 A (without air flow) or 19 V $\overline{\text{---}}$ 23.7 A (with air flow)
	12 V $\overline{\text{---}}$ 0.6 A (for Fan)
	5 V $\overline{\text{---}}$ 1 A
ECH450PS19-C	19 V $\overline{\text{---}}$ 13 A (without air flow)
	5 V $\overline{\text{---}}$ 1 A
ECH450PS19-TF	19 V $\overline{\text{---}}$ 23.7 A (with Fan)
	5 V $\overline{\text{---}}$ 1 A
ECH450PS19-EF	19 V $\overline{\text{---}}$ 23.7 A (with Fan)
	5 V $\overline{\text{---}}$ 1 A

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Models	Output Rated
ECH450PS24	24 V $\overline{\text{---}}$ 10.4 A (without air flow) or 24 V $\overline{\text{---}}$ 18.8 A (with air flow)
	12 V $\overline{\text{---}}$ 0.6 A (for Fan)
	5 V $\overline{\text{---}}$ 1 A
ECH450PS24-C	24 V $\overline{\text{---}}$ 10.4 A (without air flow)
	5 V $\overline{\text{---}}$ 1 A
ECH450PS24-TF	24 V $\overline{\text{---}}$ 18.8 A (with Fan)
	5 V $\overline{\text{---}}$ 1 A
ECH450PS24-EF	24 V $\overline{\text{---}}$ 18.8 A (with Fan)
	5 V $\overline{\text{---}}$ 1 A
ECH450PS36	36 V $\overline{\text{---}}$ 6.9 A (without air flow) or 36 V $\overline{\text{---}}$ 12.5 A (with air flow)
	12 V $\overline{\text{---}}$ 0.6 A (for Fan)
	5 V $\overline{\text{---}}$ 1 A
ECH450PS36-C	36 V $\overline{\text{---}}$ 6.9 A (without air flow)
	5 V $\overline{\text{---}}$ 1 A
ECH450PS36-TF	36 V $\overline{\text{---}}$ 12.5 A (with Fan)
	5 V $\overline{\text{---}}$ 1 A
ECH450PS36-EF	36 V $\overline{\text{---}}$ 12.5 A (with Fan)
	5 V $\overline{\text{---}}$ 1 A
ECH450PS48	48 V $\overline{\text{---}}$ 5.2 A (without air flow) or 48 V $\overline{\text{---}}$ 9.4 A (with air flow)
	12 V $\overline{\text{---}}$ 0.6 A (for Fan)
	5 V $\overline{\text{---}}$ 1 A
ECH450PS48-C	48 V $\overline{\text{---}}$ 5.2 A (without air flow)
	5 V $\overline{\text{---}}$ 1 A
ECH450PS48-TF	48 V $\overline{\text{---}}$ 9.4 A (with Fan)
	5 V $\overline{\text{---}}$ 1 A
ECH450PS48-EF	48 V $\overline{\text{---}}$ 9.4 A (with Fan)
	5 V $\overline{\text{---}}$ 1 A

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Models	Output Rated
ECH450PS54	54 V $\overline{\text{---}}$ 4.6 A (without air flow) or 54 V $\overline{\text{---}}$ 8.3 A (with air flow)
	12 V $\overline{\text{---}}$ 0.6 A (for Fan)
	5 V $\overline{\text{---}}$ 1 A
ECH450PS54-C	54 V $\overline{\text{---}}$ 4.6 A (without air flow)
	5 V $\overline{\text{---}}$ 1 A
ECH450PS54-TF	54 V $\overline{\text{---}}$ 8.3 A (with Fan)
	5 V $\overline{\text{---}}$ 1 A
ECH450PS54-EF	54 V $\overline{\text{---}}$ 8.3 A (with Fan)
	5 V $\overline{\text{---}}$ 1 A
ECH450PS56	56 V $\overline{\text{---}}$ 4.5 A (without air flow) or 56 V $\overline{\text{---}}$ 8 A (with air flow)
	12 V $\overline{\text{---}}$ 0.6 A (for Fan)
	5 V $\overline{\text{---}}$ 1 A
ECH450PS56-C	56 V $\overline{\text{---}}$ 4.5 A (without air flow)
	5 V $\overline{\text{---}}$ 1 A
ECH450PS56-TF	56 V $\overline{\text{---}}$ 8 A (with Fan)
	5 V $\overline{\text{---}}$ 1 A
ECH450PS56-EF	56 V $\overline{\text{---}}$ 8 A (with Fan)
	5 V $\overline{\text{---}}$ 1 A