Ref. Certif. No.

SG PSB-MD-00355

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product	Switching power supply unit (Open Frame Power Supply)
Name and address of the applicant	**XP Power LLC.** 15641 Red Hill Avenue, Suite 100 Tustin CA 92780 USA
Name and address of the manufacturer	XP Power LLC. 15641 Red Hill Avenue, Suite 100, Tustin CA 92780, USA
Name and address of the factory	Di Feng Gong Ye Qu 2 Hao, Xiasha Liuwu Village, ShipaiTown, 523462 Dong Guan City, GuangDong, PEOPLE'S REPUBLIC OF CHINA
Ratings and principal characteristics	Rated input voltage: 100-240 V~ Rated input current: 5.3 A-2.2 A Rated frequency: 50-60 Hz Rated outputs: See page 2-4. Protection class: I
Trade mark	XP Power or see following page.
Model/type Ref.	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))
Additional information (if necessary)	Compliance with IEC 60601-1-6 was not evaluated for the models covered by this Certificate.
A sample of the product was tested and found to be in conformity with	IEC 60601-1:2005 IEC 60601-1:2005/AMD1:2012
as shown in the Test Report Ref. No. which forms part of this certificate	081-200101-000

This CB Test Certificate is issued by the National Certification Body

CBS 057396 0584 Rev. 00
Date, 2020-01-15

(Watson Yang)

PSB Singapore

TÜV SÜD PSB Pte Ltd • 1 Science Park Drive • Singapore 118221

Trade mark (image)

XP

Brief description of the test sample:

- The product is a Class I Open Frame Power Supply (Building-in) intended to provide DC power for MEDICAL ELECTRICAL EQUIPMENT. The product itself does not provide any therapeutic support.
- The product provides Means of Patient Protection (MOPP).
- The equipment is evaluated for operating in altitude up to 5,000 m.

The output rating of the models are as below:

Parts / Models	Output Rated
ECH450PS12	12 V⎓20.8 A (without air flow) or 12 V⎓37.5 A (with air flow)
	12 V⎓0.6 A (for Fan)
	5 V⎓1 A
ECH450PS12-C	12 V⎓20.8 A (without air flow)
	5 V⎓1 A
ECH450PS12-TF	12 V⎓37.5 A (with Fan)
	5 V⎓1 A
ECH450PS12-EF	12 V⎓37.5 A (with Fan)
	5 V⎓1 A
ECH450PS15	15 V⎓16.6 A (without air flow) or 15 V⎓30 A (with air flow)
	12 V⎓0.6 A (for Fan)
	5 V⎓1 A
ECH450PS15-C	15 V⎓16.6 A (without air flow)
	5 V⎓1 A
ECH450PS15-TF	15 V⎓30 A (with Fan)
	5 V⎓1 A
ECH450PS15-EF	15 V⎓30 A (with Fan)
	5 V⎓1 A

The output rating of the models are as below:

ECH450PS19	19 V⎓13 A (without air flow) or 19 V⎓23.7 A (with air flow)
	12 V⎓0.6 A (for Fan)
	5 V⎓1 A
ECH450PS19-C	19 V⎓13 A (without air flow)
	5 V⎓1 A
ECH450PS19-TF	19 V⎓23.7 A (with Fan)
	5 V⎓1 A
ECH450PS19-EF	19 V⎓23.7 A (with Fan)
	5 V⎓1 A
ECH450PS24	24 V⎓10.4 A (without air flow) or 24 V⎓18.8 A (with air flow)
	12 V⎓0.6 A (for Fan)
	5 V⎓1 A
ECH450PS24-C	24 V⎓10.4 A (without air flow)
	5 V⎓1 A
ECH450PS24-TF	24 V⎓18.8 A (with Fan)
	5 V⎓1 A
ECH450PS24-EF	24 V⎓18.8 A (with Fan)
	5 V⎓1 A
ECH450PS36	36 V⎓6.9 A (without air flow) or 36 V⎓12.5 A (with air flow)
	12 V⎓0.6 A (for Fan)
	5 V⎓1 A
ECH450PS36-C	36 V⎓6.9 A (without air flow)
	5 V⎓1 A
ECH450PS36-TF	36 V⎓12.5 A (with Fan)
	5 V⎓1 A
ECH450PS36-EF	36 V⎓12.5 A (with Fan)
	5 V⎓1 A

The output rating of the models are as below:

ECH450PS48	48 V⎓5.2 A (without air flow) or 48 V⎓9.4 A (with air flow)
	12 V⎓0.6 A (for Fan)
	5 V⎓1 A
ECH450PS48-C	48 V⎓5.2 A (without air flow)
	5 V⎓1 A
ECH450PS48-TF	48 V⎓9.4 A (with Fan)
	5 V⎓1 A
ECH450PS48-EF	48 V⎓9.4 A (with Fan)
	5 V⎓1 A
ECH450PS54	54 V⎓4.6 A (without air flow) or 54 V⎓8.3 A (with air flow)
	12 V⎓0.6 A (for Fan)
	5 V⎓1 A
ECH450PS54-C	54 V⎓4.6 A (without air flow)
	5 V⎓1 A
ECH450PS54-TF	54 V⎓8.3 A (with Fan)
	5 V⎓1 A
ECH450PS54-EF	54 V⎓8.3 A (with Fan)
	5 V⎓1 A
ECH450PS56	56 V⎓4.5 A (without air flow) or 56 V⎓8 A (with air flow)
	12 V⎓0.6 A (for Fan)
	5 V⎓1 A
ECH450PS56-C	56 V⎓4.5 A (without air flow)
	5 V⎓1 A
ECH450PS56-TF	56 V⎓8 A (with Fan)
	5 V⎓1 A
ECH450PS56-EF	56 V⎓8 A (with Fan)
	5 V⎓1 A