



America

# CERTIFICATE

No. B 13 11 57396 241

Holder of Certificate: **XP Power LLC.**



1241 East Dyer Road, Suite 150  
Santa Ana CA 92705  
USA

Production  
Facility(ies):

59319, 71712

Certification Mark:



Product:

Power supply  
(Power supply)

Model(s):

ECM140USXX  
(where XX can be number 03 to 48 indicating  
the output voltage, can be optionally followed  
by "-A" for option of 5V standby, Power OK & Inhibit )  
ECM140US24-XD0145, 10012197,  
ECM140US12-A-XA1049

Parameters:

Rated Input Voltage: 100-240 V AC  
Rated Input Current: 2.5 A  
Rated Input Frequency: 50/60 Hz  
Rated Output Voltage: See attachment  
Protection Class: Class I or Class II end products  
(End product dependant)  
Temperature, Ambient: Convection cooling:  
50°C at full load, 70°C at half load.  
10 CFM force cooling:  
60°C at full load, 70°C at 75% full load.  
Operating Altitude: 5000 m max.  
See attachment for further information.

Tested according to: EN 60601-1:2006

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.: 095-1200228-200

Date, 2013-12-18

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*Done*





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## ATTACHMENT TO CERTIFICATE NO. B 13 11 57396 241 FOR XP POWER LLC

### POWER SUPPLY

Approved models and output ratings:

Model Number	Output Ratings (V/A)	Output Power	Output Ratings (V/A)	Output Power
	Convection cooling	Convection cooling	10 CFM force cooling	10 CFM force cooling
ECM140US12	10.1-13.5V/10.0A	120	10.1-13.5V/11.7A	148
ECM140US12-A-XA1049	10.1-13.5V/10.0A	120	10.1-13.5V/11.7A	148
ECM140US15	13.6-17.0V/8.0A	120	13.6-17.0V/9.3A	148
ECM140US18	17.1-21.0V/6.6A	120	17.1-21.0V/7.7A	148
ECM140US24	21.1-26.0V/5.0A	120	21.1-26.0V/5.8A	148
ECM140US28	26.1-36.0V/4.2A	120	26.1-36.0V/5.0A	148
ECM140US48	42.1-54.0V/2.5A	120	42.1-54.0V/2.9A	148
ECM140US24-XD0145	21.1-26.0V/5.0A	120	21.1-26.0V/5.8A	148
10012197	21.1-26.0V/5.0A	120	21.1-26.0V/5.8A	148

Models are provided with external Fan Supply connection (12Vdc, 0.5A) and Standby connection (5Vdc, 0.5A)



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## ATTACHMENT TO CERTIFICATE NO. B 13 11 57396 241 FOR XP POWER LLC

### Conditions of Acceptability:

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

### The models require:

- Suitable Fire/Mechanical/Electrical enclosure shall be provided as part of the end product.
- When installed into end product, sufficient clearance and creepage distance shall be provided between power supply and accessible conductive parts.
- Temperature, Leakage Current, Protective Earthing, Dielectric Voltage Withstand, and Interruption of the Power Supply tests should be considered as part of the end product evaluation.
- The output circuits have not been evaluated for direct patient connection (Type B, BF or CF).
- 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.
- The product was not investigated to the following standards or clauses: Electromagnetic Compatibility (EN 60601-1-2) Clause 14, Programmable Electronic Systems, Biocompatibility (ISO 10993-1), additional evaluation shall be conducted at end use.

(continued)



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## ATTACHMENT TO CERTIFICATE NO. B 13 11 57396 241 FOR XP POWER LLC

- Scope of Power Supply evaluation defers the following clauses to be determined as part of the end product:
  - Clause 7.5 (Safety Signs),
  - Clause 7.9 (Accompanying Documents),
  - Clause 9 (ME Hazard),
  - Clause 10 (Radiation),
  - Clause 14 (PEMS),
  - Clause 16 (ME Systems)
- Scope of Power Supply evaluation excludes the following:
  - Patient applied parts clauses: 4.6, 7.2.10, 8.3, 8.5.2, 8.5.5, 8.7.4.7-8.7.4.9, 8.9.1.15
  - Battery related clauses: 7.3.3, 15.4.3
  - Hand Control related clauses: 8.10.4
  - Oxygen related clauses: 11.2.2
  - Fluids related clauses: 11.6.2 – 11.6.4
  - Sterilization clause: 11.6.7
  - Biocompatibility Clause: 11.7 (ISO 10993)
  - Motor related clauses: 13.2.13.3, 13.4
  - Heating Elements related clause: 13.2
  - Flammable Anaesthetic Mixtures Protection: Annex G



America

# CERTIFICATE

No. B 13 05 57396 206

Holder of Certificate: **XP Power LLC.**



1241 East Dyer Road, Suite 150  
Santa Ana CA 92705  
USA

Production  
Facility(ies):

59319, 71712

Certification Mark:



Product:

Power supply  
(Power Supply)

Model(s):

ECM140USXX  
(where XX can be number between  
12 to 48 designating the output voltage)

Parameters:

Rated Input Voltage:	100 - 240 VAC,
Rated Input Current:	2.5 A
Rated input frequency:	50 / 60 Hz
Rated Output Ratings:	12-48 VDC, 28A max, not to exceed 148W
Protection Class:	I or II (depend on end use)
Elevation for use:	0-3048m above sea level
Ta:	
Convection cooling:	50°C at full load, 70°C at half load.
10 CFM force cooling:	60°C at full load, 70°C at 75% full load

For additional information, please see attachment.

Tested according to: EN 60950-1/A12:2011

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.: SI1305205102-000

Date, 2013-05-23

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America

## ATTACHMENT TO CERTIFICATE NO. B 13 05 57396 206 FOR XP POWER LLC.

### POWER SUPPLY

The subject models are component type AC-DC switching power supplies for building-in. They are intended for use in Information Technology equipment applications.

EMC140USXX DC output ratings				
Model Number	Output Ratings (V/A)		Output Power	
	Convection cooling	10 CFM force cooling	Convection cooling	10 CFM force cooling
ECM140US12	12.0V/10.0A	12.0V/11.7A	120	148
ECM140US15	15.0V/8.0A	15.0V/9.3A	120	148
ECM140US18	18.0V/6.6A	18.0V/7.7A	120	148
ECM140US24	24.0V/5.0A	24.0V/5.8A	120	148
ECM140US28	28.0V/4.2A	28.0V/5.0A	120	148
ECM140US48	48.0V/2.5A	48.0V/2.9A	120	148

#### CONDITIONS OF ACCEPTABILITY:

1. The power supply is to be installed only by trained service personnel, according to manufacturer's instruction.
2. Input/output connectors are not acceptable for direct mains connection, they are only intended for connection to mating connectors of internal wiring inside the end system.
3. Proper fire and electrical enclosure are required at end system.
4. Leakage and Dielectric Strength test shall be considered in the end system.
5. The power supplies approved have a fuse in the neutral of the primary circuit. The proper warning to service persons should be marked on the end system.

#### **For CLASS I Installation:**

The power supply shall be mounted in manner that provides sufficient clearance and creepage distance between the live part and protectively earthed accessible conductive parts when installed in a Class I end system.

The protective bonding terminal of the power supply shall be reliably bonded to the main protective earthing terminal of the end product when installed in a Class I end system.

#### **For CLASS II Installation:**

The power supply shall be mounted in manner that provides sufficient clearance and creepage distance between the live part and accessible conductive parts when installed in a Class II end product.

Rpt. Ref. No.:SI1305205102-000

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Date of issue: 2013-05-23

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

SYSTEME CEI D'ACCEPTATION MUTUELLE DE  
CERTIFICATS D'ESSAIS DES EQUIPEMENTS  
ELECTRIQUES (IECEE) METHODE OC

## CB TEST CERTIFICATE CERTIFICAT D'ESSAI OC

Product  
Produit

Power supply  
Power Supply

Name and address of the applicant  
Nom et adresse du demandeur

XP Power, Inc.  
1590 Sinclair Street  
Anaheim CA 92806-5933, USA

Name and address of the manufacturer  
Nom et adresse du fabricant

XP Power, Inc., 1590 Sinclair Street, Anaheim CA 92806-5933,  
USA

Name and address of the factory  
Nom et adresse de l'usine

XP Power, Inc., 1590 Sinclair Street, Anaheim CA 92806-5933,  
USA

Rating and principal characteristics  
Valeurs nominales et caractéristiques principales

For further information please see attachment

Rated Input Voltage: 100-240 VAC  
Rated Input Current: 2.5 A  
Rated Input Frequency: 50/60 Hz  
Rated Output Ratings: See attachment for details  
Protection Class: I or II (depend on end use)  
See attachment for Ambient ratings and Conditions  
of Acceptability

Trade mark (if any)  
Marque de fabrique (si elle existe)

XP

Model/type Ref.  
Ref. de type

ECM140USXX (where XX can be number between  
03 to 48 designating the output voltage)

Additional information (if necessary)  
Information complémentaire (si nécessaire)

TMP

A sample of the product was tested and found  
to be in conformity with  
Un échantillon de ce produit a été essayé et a été  
considéré conforme à la

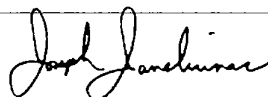
IEC 61010-1:2001

as shown in the Test Report Ref. No.  
which form part of this certificate  
comme indiqué dans le Rapport d'essais numéro  
de référence qui constitue une partie de ce  
certificat

TÜV SÜD Product Service  
095-802899101-000

This CB Test Certificate is issued by the National Certification Body  
Ce Certificat d'essai OC est établi par l'Organisme **National de Certification**

Date, 2008-05-14  
CB 08 04 57396 049



Joseph Janeliunas

TÜV SÜD Product Service GmbH · Certification Body · Ridlerstrasse 65 · D-80339 München



Product Service

### Additional factory information:

Name and address of the factory <i>Nom et adresse de l'usine</i>	(59319) XP-Power 990 Benecia Ave Sunnyvale CA 94085, USA
	(61401) Fortron XP Power (Kunshan) Limited 10, Dong Huan Road, Zhang Pu Town Kunshan City, 215337, Jiang Shu Province People's Republic Of China
	(30668) Fortron/Source (China) Corp Unit 25, Zone 37, Shenzhen, Bao'an Guangdong 518104, China
	(52681) Fortron Source (China) Ju-Yuan Industrial Park, Tang – Wei, Fu-Yong Town, Bao – An, Shenzhen, Guangdong, P.R. China

The power supplies are evaluated for use at altitude up to 3000 meter above sea level.

#### Maximum Temperature, ambient (Ta):

Convection cooling: 50°C at full load, 70°C at half load.

10 CFM force cooling: 60°C at full load, 70°C at 75% full load.

#### EMC140USXX DC output ratings:

Model Number	Output Ratings (V/A)	Output Power (W)	
		Convection cooling	10 CFM force cooling
ECM140US03	3.3V/28.0A	75	90
ECM140US05	5.0V/28.0A	110	140
ECM140US12	12.0V/11.7A	120	148
ECM140US15	15.0V/9.3A	120	148
ECM140US18	18.0V/7.8A	120	148
ECM140US24	24.0V/5.8A	120	148
ECM140US48	48.0V/2.9A	120	148

Test Report No: 095-802899101-000

Date: 2008-05-14  
CB 08 04 57396 049




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**CONDITIONS OF ACCEPTABILITY:**

1. The power supply is to be installed only by trained service personnel, according to manufacturer's instruction.
2. Input/output connectors are not acceptable for direct mains connection, they are only intended for connection to mating connectors of internal wiring inside the end system.
3. Proper fire and electrical enclosure are required at end system..
4. Leakage and Dielectric Strength test shall be considered in the end system.
5. The power supplies approved have a fuse in the neutral of the primary circuit. The proper warning to service persons should be marked on the end system.

**For CLASS I Installation:**

The power supply shall be mounted in manner that provides at minimum 1.71 mm clearance and 3.0 mm creepage distance between the live part and protectively earthed accessible conductive parts when installed in a Class I end system.

The protective bonding terminal of the power supply shall be reliably bonded to the main protective earthing terminal of the end product when installed in a Class I end system.

**For CLASS II Installation:**

The power supply shall be mounted on insulating posts that provide a minimum of 3.42 mm clearance and 6.0 mm creepage distance between the live part and accessible conductive parts when installed in a Class II end product.

Test Report No: 095-802899101-000

Date: 2008-05-14  
CB 08 04 57396 049

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