Product Service

CERTIFICATE

No. B 057396 0537 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 (Power Supply for building-in)**

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.: 7191196470-TR

Valid until: 2023-12-19

Date, 2018-12-21 (Antony Young-Taylor)

TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

Product Service

CERTIFICATE

No. B 057396 0537 Rev. 00

Model(s):

Power Supply for building-in
UCP180PSXX (where XX can be any number 12, 15, 18, 24, 28, 36 or 48 designating the output voltage), may also be provided with additional suffix "-SF" or "-C" or "-T" or "-YYYYYY"

"-SF" denotes units provided with only a single line side fuse.
"-C" denotes that unit is provided with option top cover.
"-T" denotes that unit is provided with screw type terminal.
YYYYYY" can be any digits or letters or blank for marketing purposes.
All "-" considered optional.

Brand Name: **XP Power**

Parameters:

Model UCP180PS12: Output Rated - convection, no top cover: 12 Vdc 10 A (50C), 12 Vdc, 5 A (70C)
Model UCP180PS15: Output Rated - convection, no top cover: 15 Vdc, 8 A (50C), 15 Vdc, 4 A (70C)
Model UCP180PS18: Output Rated - convection, no top cover: 18 Vdc, 6.67 A (50C), 18 Vdc, 3.34 A (70C)
Model UCP180PS24: Output Rated - convection, no top cover: 24 Vdc, 5 A (50C), 24 Vdc, 2.5 A (70C)
Model UCP180PS28: Output Rated - convection, no top cover: 28 Vdc, 4.3 A (50C), 28 Vdc, 2.15 A (70C)
Model UCP180PS36: Output Rated - convection, no top cover: 36 Vdc, 3.33 A (50C), 36 Vdc, 1.67 A (70C)
Model UCP180PS48: Output Rated - convection, no top cover: 48 Vdc, 2.5 A (50C), 48 Vdc, 1.25 A (70C)

Model UCP180PS12: Output Rated - convection, with top cover: 12 Vdc 9 A (50C), 12 Vdc, 4.5 A (70C)
Model UCP180PS15: Output Rated - convection, with top cover: 15 Vdc, 7.2 A (50C), 15 Vdc, 3.6 A (70C)
Model UCP180PS18: Output Rated - convection, with top cover: 18 Vdc, 6 A (50C), 18 Vdc, 3 A (70C)
Model UCP180PS24: Output Rated - convection, with top cover: 24 Vdc, 4.5 A (50C), 24 Vdc, 2.25 A (70C)
Model UCP180PS28: Output Rated - convection, with top cover: 28 Vdc, 3.87 A (50C), 28 Vdc, 1.93 A (70C)
Model UCP180PS36: Output Rated - convection, with top cover: 36 Vdc, 3 A (50C), 36 Vdc, 1.5 A (70C)
Model UCP180PS48: Output Rated - convection, with top cover: 48 Vdc, 2.25 A (50C), 48 Vdc, 1.13 A (70C)

Model UCP180PS12: Output Rated - forced-air cooling, no top cover: 12 Vdc 15 A (50C), 12 Vdc, 7.5 A (70C)
Model UCP180PS15: Output Rated - forced-air cooling, no top cover: 15 Vdc, 12 A (50C), 15 Vdc, 6 A (70C)
Model UCP180PS18: Output Rated - forced-air cooling, no top cover: 18 Vdc, 10 A (50C), 18 Vdc, 5 A (70C)
Model UCP180PS24: Output Rated - forced-air cooling, no top cover: 24 Vdc, 7.5 A (50C), 24 Vdc, 3.75 A (70C)
Model UCP180PS28: Output Rated - forced-air cooling, no top cover: 28 Vdc, 6.43 A (50C), 28 Vdc, 3.22 A (70C)
Model UCP180PS36: Output Rated - forced-air cooling, no top cover: 36 Vdc, 5 A (50C), 36 Vdc, 2.5 A (70C)
Model UCP180PS48: Output Rated - forced-air cooling, no top cover: 48 Vdc, 3.75 A (50C), 48 Vdc, 1.88 A (70C)

Model UCP180PS12: Output Rated - forced-air cooling, with top cover: 12 Vdc 13.5 A (50C), 12 Vdc, 6.75 A (70C)
Model UCP180PS15: Output Rated - forced-air cooling, with top cover: 15 Vdc, 10.8 A (50C), 15 Vdc, 5.4 A (70C)
Model UCP180PS18: Output Rated - forced-air cooling, with top cover: 18 Vdc, 9 A (50C), 18 Vdc, 4.5 A (70C)
Model UCP180PS24: Output Rated - forced-air cooling, with top cover: 24 Vdc, 6.75 A (50C), 24 Vdc, 3.37 A (70C)
Model UCP180PS28: Output Rated - forced-air cooling, with top cover: 28 Vdc, 5.78 A (50C), 28 Vdc, 2.89 A (70C)
Model UCP180PS36: Output Rated - forced-air cooling, with top cover: 36 Vdc, 4.5 A (50C), 36 Vdc, 2.25 A (70C)
Model UCP180PS48: Output Rated - forced-air cooling, with top cover: 48 Vdc, 3.37 A (50C), 48 Vdc, 1.69 A (70C)

TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

Product Service

CERTIFICATE

No. B 057396 0537 Rev. 00

Conditions of Acceptability:

a) The output was not evaluated as patient connected circuits.
b) Compliance with the requirements for EMC shall be evaluated for the end use product.
c) These products have been investigated only as a component part for use in equipment where the suitability of the combination is subject to end product investigation.
d) The leakage current test shall be checked in end product.
e) Clearance/creepage distance and dielectric strength were evaluated and fulfilled the requirements for MOPP.
f) When the product is placed on the market, it must be accompanied with safety instructions written in official language of the country. The instructions shall give information regarding safe operation, installation and maintenance.
g) According to the EU directives which have been aligned with EU NLF (new legislative framework), both of manufacturer and importer's name and address shall be affixed on the product or, where that is not possible, on its packaging or in a document accompanying the product before the product is placed on the EU market.
h) The manufacturer/ Importer has to ensure the appliance placing on the EU market conforms to the applicable EU diretives which provide the affixing of the CE marking, such as LVD, EMC, RoHS, ErP and so on.
i) When installing the equipment, all requirements of the mentioned standard must be fulfilled.
j) See also Engineering Conditions of Acceptabiliy in UL CB Test Report No.: E321744-D1019-1/A0/C0-CB.

Tested according to: EN 60601-1:2006/A1:2013
EN 60601-1:2006/A12:2014

Production Facility(ies): 003227, 071712, 089850

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

US-Letter / 07.17

TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

Product Service

CERTIFICATE

No. B 057396 0524 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 (Switching Power Supply for building-in)**

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.: 7191193835-TR

Valid until: 2023-10-16

Date, 2018-10-18 (KIM HOCK TEO)

TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

Product Service

CERTIFICATE

No. B 057396 0524 Rev. 00

Model(s): **UCP180PSXX (where XX can be any number 12, 15, 18, 24, 28, 36 or 48 designating the output voltage), may also be provided with additional suffix "-SF" or "-C" or "-T" or "-YYYYYY"; the hyphen is optional.**
"-SF" denotes that unit is provided with only a single line fuse at live side.
"-C" denotes that unit is provided with option top cover.
"-T" denotes that unit is provided with screw type terminal. "-YYYYYY" can be blank or any alphanumeric for marketing purposes only.

Brand Name: **XP**

Parameters:

Parameters: Rated Input : 100-240 VAC, 3A, 50/60 Hz
Pollution Degree : 2 Degree of Protection (IP) : X0
Max Temperature Tma
(without top cover option) : 50°C at 100% rated output load; 70°C at 50% rated output load;
(with top cover option) : 50°C at 90% rated output load; 70°C at 45% rated output load.

Rated output:
Convention cooling
UCP180PS12: 12Vdc, 10 A max, 120W max
UCP180PS15: 15Vdc, 8 A max, 120W max
UCP180PS18: 18Vdc, 6.67 A max, 120W max
UCP180PS24: 24Vdc, 5 A max, 120W max
UCP180PS28: 28Vdc, 4.3 A max, 120W max.
UCP180PS36: 36Vdc, 3.33 A max, 120W max
UCP180PS48: 48Vdc, 2.5 A max, 120W max

Forced air cooling UCP180PS12: 12Vdc, 15 A max, 180W max
UCP180PS15: 15Vdc, 12 A max, 180W max
UCP180PS18: 18Vdc, 10 A max, 180W max
UCP180PS24: 24Vdc, 7.5 A max, 180W max
UCP180PS28: 28Vdc, 6.43 A max, 180W max.
UCP180PS36: 36Vdc, 5 A max, 180W max
UCP180PS48: 48Vdc, 3.75 A max, 180W max

All models are provided with a Fan Output @ CN3 (12 Vdc, 0.5A).

Conditions of Acceptability:

When installed in an end-product, consideration must be given to the following:
• When installed in end product, the clearance and creepage distance between the hazardous parts

TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

Product Service

CERTIFICATE

No. B 057396 0524 Rev. 00

and accessible parts shall meet the standard(s) requirements. Hi-pot test, touch current test and ground bond test shall be conducted at end product.
• The end-product Electric Strength Test is to be based upon a maximum working voltage of: Primary-SELV/Earthed Dead Metal: 278 Vrms, 515 Vpk.
• The following secondary output circuits are PS3 energy levels: Output.
• The following secondary output circuits are ES1: Output.
• The power supply terminals and/or connectors are: Suitable for factory wiring only.
• The maximum investigated branch circuit rating is: 20 A.
• The investigated Pollution Degree is: 2.
• Proper bonding to the end-product main protective earthing termination is: Required (via Chassis).
• The following end-product enclosures are required: Fire, Electrical. of fire spread' method assuming appropriate fire enclosure is provided in end product. Unless the fire enclosure is made of non-combustible or V-0 material, the separation from the PIS shall be considered.

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

Production Facility(ies): 003227, 071712, 089850

TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

TÜV®