Ref. Certif. No.

CA/22118/CSA

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

CB TEST CERTIFICATE

Product	DC-DC Converter
Name and address of the applicant	XP POWER LLC 15641 Red Hill Avenue, Suite 100, Tustin, California, 92780 USA
Name and address of the manufacturer	XP POWER LLC 15641 Red Hill Avenue, Suite 100, Tustin, California, 92780 USA
Name and address of the factory Note: *When more than one factory, please report on page 2*	Refer to Certificate of page 2 ☒ Additional Information on page 2
Ratings and principal characteristics	Refer to Certificate of page 2
Trademark (if any)	XP
Customer's Testing Facility (CTF) Stage used	N/A
Model / Type Ref.	JHM20xxyzz (xx is 12 or 24 or 48 representing input voltage; y is S or D representing single or dual output type; ZZ is 05, 12 or 15 representing output voltage)
Additional information (if necessary may also be reported on page 2)	Additionally the product was evaluated to the requirements of EN 60601-1:2006+A1:2013+A12:2014 ☐ Additional Information on page 2
A sample of the product was tested and found to be in conformity with	IEC 60601 1:2005 (Third Edition) + CORR. 1:2006 + CORR. 2:2007 + A1:2012 and National Differences: CA, CH, JP, KR, UK, US;
As shown in the Test Report Ref. No. which forms part of this Certificate	CB 269692-70191158

This CB Test Certificate is issued by the National Certification Body

CSA Group
178 Rexdale Boulevard
Toronto, ON M9W 1R3 Canada

Date: 2018-10-31

Signature: Tan Lu

Name and address of the factory

1. 1 FU KUNG RD, FU HSING PARK
   FU HING HSIANG, CHANGHUA HSIEN 506
   TAIWAN
2. 1 JING XIANG RD DONGCHEUNG, FOREIGN
   TRADE INDUSTRIAL PARK, DONGGUAN, GUANGDPNG
   523128 CHINA

Ratings and principal characteristics

Model No.	Input Rating(s)	Output Rating(s)
JHM2012S05	9-18Vdc; 3.5A	5Vdc; 4A
JHM2012S12	9-18Vdc; 3.5A	12Vdc; 1.67A
JHM2012S15	9-18Vdc; 3.5A	15Vdc; 1.333A
JHM2012D05	9-18Vdc; 3.5A	±5Vdc; ±2A
JHM2012D12	9-18Vdc; 3.5A	±12Vdc; ±0.833A
JHM2012D15	9-18Vdc; 3.5A	±15Vdc; ±0.667A
JHM2024S05	18-36Vdc; 1.75A	5Vdc; 4A
JHM2024S12	18-36Vdc; 1.75A	12Vdc; 1.67A
JHM2024S15	18-36Vdc; 1.75A	15Vdc; 1.333A
JHM2024D05	18-36Vdc; 1.75A	±5Vdc; ±2A
JHM2024D12	18-36Vdc; 1.75A	±12Vdc; ±0.833A
JHM2024D15	18-36Vdc; 1.75A	±15Vdc; ±0.667A
JHM2048S05	36-75Vdc; 0.85A	5Vdc; 4A
JHM2048S12	36-75Vdc; 0.85A	12Vdc; 1.67A
JHM2048S15	36-75Vdc; 0.85A	15Vdc; 1.333A
JHM2048D05	36-75Vdc; 0.85A	±5Vdc; ±2A
JHM2048D12	36-75Vdc; 0.85A	±12Vdc; ±0.833A
JHM2048D15	36-75Vdc; 0.85A	±15Vdc; ±0.667A

Notes:

1. The maximum operating ambient temperature is 60 °C for full load (20W) and 80°C for derating to 50% load (10W).
2. Medical device protection against electric shock: Not Classified, to be determined in end-product.
3. Applied Part protection against electric shock: No applied part/Not Classified
4. Degree of protection against ingress of water or particulate matter: No degree of protection
5. Method of Sterilization: None
6. Suitability for use in an Oxygen Rich Environment: Medical device not intended to be used in an Oxygen Rich Environment

7. Suitability to use Medical device in the presence of a flammable anaesthetic mixture with air or with oxygen or nitrous oxide: Medical device not suitable for use in the presence of a flammable anaesthetic mixture with air or with oxygen or nitrous oxide.
8. Mode of operation: Continuous
9. Environmental Conditions: Normal: -40 to 80°C, 0-95% RH non-condensing, 540-1060hPa

Additional information (if necessary)

Date: 2018-10-31

Signature: Tan Lu