Ref. Certif. No.

SE-115154

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

CB TEST CERTIFICATE

Product	Built-in power supply
Name and address of the applicant	Powerbox International AB Västberga Allé 36A, 5tr 126 30 HÄGERSTEN SWEDEN
Name and address of the manufacturer	Same as applicant
Name and address of the factory Note: *When more than one factory, please report on page 2*	Airline Mechanical (Guangxi) Company Limited No. 1, Zhizao Third Road, Longhu Town Wanxiu District 543003 Wuzhou City, Guangxi CHINA ☐ Additional Information on page 2
Ratings and principal characteristics	100-240Vac, 50/60Hz, max 2.0A Output: 12-24Vdc, 8.3-4.2A, max 100W With forced cooling (6.6 CFM) Output: 12-24Vdc, 5.8-3.3A, max 80W Without forced cooling Class I, Ta 50°C
Trademark / Brand (if any)	Powerbox
Customer's Testing Facility (CTF) Stage used	-
Model / Type Ref.	OFM100 51** series
Additional information (if necessary may also be reported on page 2)	☒ Additional Information on page 2
A sample of the product was tested and found to be in conformity with	IEC 60601-1:2005+A1+A2
As shown in the Test Report Ref. No. which forms part of this Certificate	2204140STO-001

This CB Test Certificate is issued by the National Certification Body

Intertek Semko AB
Torshamnsgatan 43
Box 1103
SE-164 22 Kista, Sweden

Date: 31 October, 2024

intertek

Signature: Anneli Averland Johansson

Additional information

A new certificate has been issued due to an update of standard edition from IEC 60601-1:2005+A1 to IEC60601-1:2005+A1+A2. There have been no changes made to the EUT since the last testing therefore, spot check testing has been evaluated.

The product is also in conformity with the following standards:

- AAMI ES60601-1:2005+A1:2012+A2:2020 as shown in Test Report No. 2204140STO-001
- CSA-C22.2 No. 60601-1:14+A1+A2:2022 as shown in Test Report No. 2204140STO-001

Models and ratings
4 models included in the OFM 100 51** series and the models have following ratings.

- OFM 100 5125 12VDC max 8.3A
- OFM 100 5126 15VDC max 6.7A
- OFM 100 5127 18VDC max 5.5A
- OFM 100 5128 24VDC max 4.2A

Considerations for end-use application/conditions of acceptability:
Product under test is not considered an end use application, thus the Risk Management File shall be evaluated in end-use application.

- Intended to be built into an MEE equipment. Thus several clauses and sub clauses are not applicable and shall be checked in the end-use application.
- The PSU has been evaluated for pollution degree 2 with one means of patient protection (1MOPP), between input (primary) and PE; and two means of patient protection (2MOPP) between input (primary) and output (secondary) under normal and single fault conditions. The outputs do not exceed 42,4 Vpk ac or 60 Vdc. The suitability of protection against electrical hazards shall be subject for evaluation in the end-use application.
- A suitable enclosure to protect from accessibility to electrical hazards shall be provided and subjected to applicable tests in the end-use application.
- If a fire enclosure is provided as fire protection in the end-use application, following components have a rating of FV-2 or higher:
  - Insulated wire
  - Connectors
  - PCB:s
  - Insulating materials on which components are mounted.

- The PSU has been tested for an altitude of max. 3000m.
- Power supply not investigated for Oxygen Rich Environment.
- The PSU end-use model should be monitored using the type K-thermocouples placed on a hottest of the components with/without cooling systems and equipment should be run until all temperatures have reached steady-state (stabilization) condition.

Component location	Max allowable temperature (°C)
1. Input connector (J4) - Ambient	105
2. Line filter (DR1) - Ambient	130-10=120
3. Y2 and X1 - Capacitors - Ambient	125
4. Transformer on winding (TR1)	130-10=120
5. Transformer on the bobbin (TR1)	150
6. PCB/optocouplers - (OPT2) (Below transformer)	130

- It is anticipated that the end-product manufacturer will have access to the above stated conditions.

Date: 31 October, 2024 Signature: