



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx ITS 16.0059

Issue No: 1

Certificate history:

Issue No. 1 (2017-08-21)

Issue No. 0 (2016-09-14)

Status: **Current**

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Date of Issue: **2017-08-21**

Applicant: **Bifold**  
Broadgate  
Oldham Broadway Business Park  
Chadderton  
Greater Manchester  
**United Kingdom**

Equipment: **BFP DCSS and BFP DCSS-20**

*Optional accessory:*

Type of Protection: **Ex db Flameproof**

Marking:

Ex db IIB T6 Gb  
Continuous use : 24VDC 20A T6 (-40°C ≤ Tamb ≤ 60°C). Duty Cycle 15mins on\15 mins off : 24VDC 30A T6 (-40°C ≤ Tamb ≤ 55°C)

Ex db IIB T5 Gb  
Duty Cycle 15mins on\15 mins off : 24VDC 30A T5 (-40°C ≤ Tamb ≤ 60°C)  
IECEX ITS 16.0059

*Approved for issue on behalf of the IECEx  
Certification Body:*

V K Varma

*Position:*

Certification Officer

*Signature:  
(for printed version)*

*Date:*

2017-08-21

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**Intertek Testing & Certification Limited**  
ITS House, Cleeve Road,  
Leatherhead,  
Surrey, KT22 7SB  
United Kingdom





# IECEX Certificate of Conformity

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Date of Issue: **2017-08-21** Page 2 of 5

Manufacturer: **Bifold**  
Broadgate  
Oldham Broadway Business Park  
Chadderton  
Greater Manchester  
**United Kingdom**

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

## STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

**IEC 60079-0 : 2011** Explosive atmospheres - Part 0: General requirements  
Edition:6.0

**IEC 60079-1 : 2014-06** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

## TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:

[GB/ITS/ExTR16.0057/00](#) [GB/ITS/ExTR16.0057/01](#)

Quality Assessment Report:

[GB/BAS/QAR07.0038/05](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The Bifold Power Supply (BPS) BPS-DCSS and BPS-DCSS-20 comprises a cylindrical aluminium alloy enclosure XD-120H, component certified according to IECEx FTZU 11.0012U. The enclosure consists of a base and threaded cover fitted with VMQ rubber gasket and contains an electronic power supply assembly rated at 24VDC. The enclosure base has three cable entry holes tapped either M20\*1.5 or M25\*1.5 marked on the label accordingly. The only difference between models is the internal PCB dimensions. All cable entries holes must be fitted with certified flameproof entry/ stopping devices.

Ratings\Duty cycle:

20Amps continuous operation T6 with Ambient  $- \leq 40^{\circ}\text{C}$  Tamb  $+ \leq 60^{\circ}\text{C}$ .

Duty cycle 15 mins on/off at 30 Amps = T6 with Ambient  $- \leq 40^{\circ}\text{C}$  Tamb  $+ \leq 55^{\circ}\text{C}$

Duty cycle 15 mins on/off at 30 Amps = T5 with Ambient  $- \leq 40^{\circ}\text{C}$  Tamb  $+ \leq 60^{\circ}\text{C}$

**SPECIFIC CONDITIONS OF USE: NO**



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):**

Issue 1

Additional model added BPS-DCSS-20, to allow the use of a different dimensional internal Printed Circuit Board (PCB).



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**Additional information:**

**Annex:**

[Annex to IECEX ITS 16.0059 Issue 1.pdf](#)



**Schedule of Drawings  
IECEX ITS 16.0059 Issue 1**

Bifold Fluidpower Ltd  
Broadgate, Oldham Broadway Business Park,  
Broadway Business Park,  
Chadderton,  
Greater Manchester,  
OL9 9XA  
UK

**Drawings:**

<b>Title:</b>	<b>Drawing No.:</b>	<b>Rev. Level:</b>	<b>Date:</b>
BPS-DCSS General Arrangement	0-SC0026	2	08.08.16
*BPS-DCSS-SOFT START LABEL	0-SL0052/02	2	13.07.17
*General Arrangement	0-SC0029	1	28.06.17
*BPS-DCSS O&M Manual	ORM0021	2	04/08/2017

Note: An \* is included before the title of documents that are new or revised.

**Intertek Testing & Certification Limited**  
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