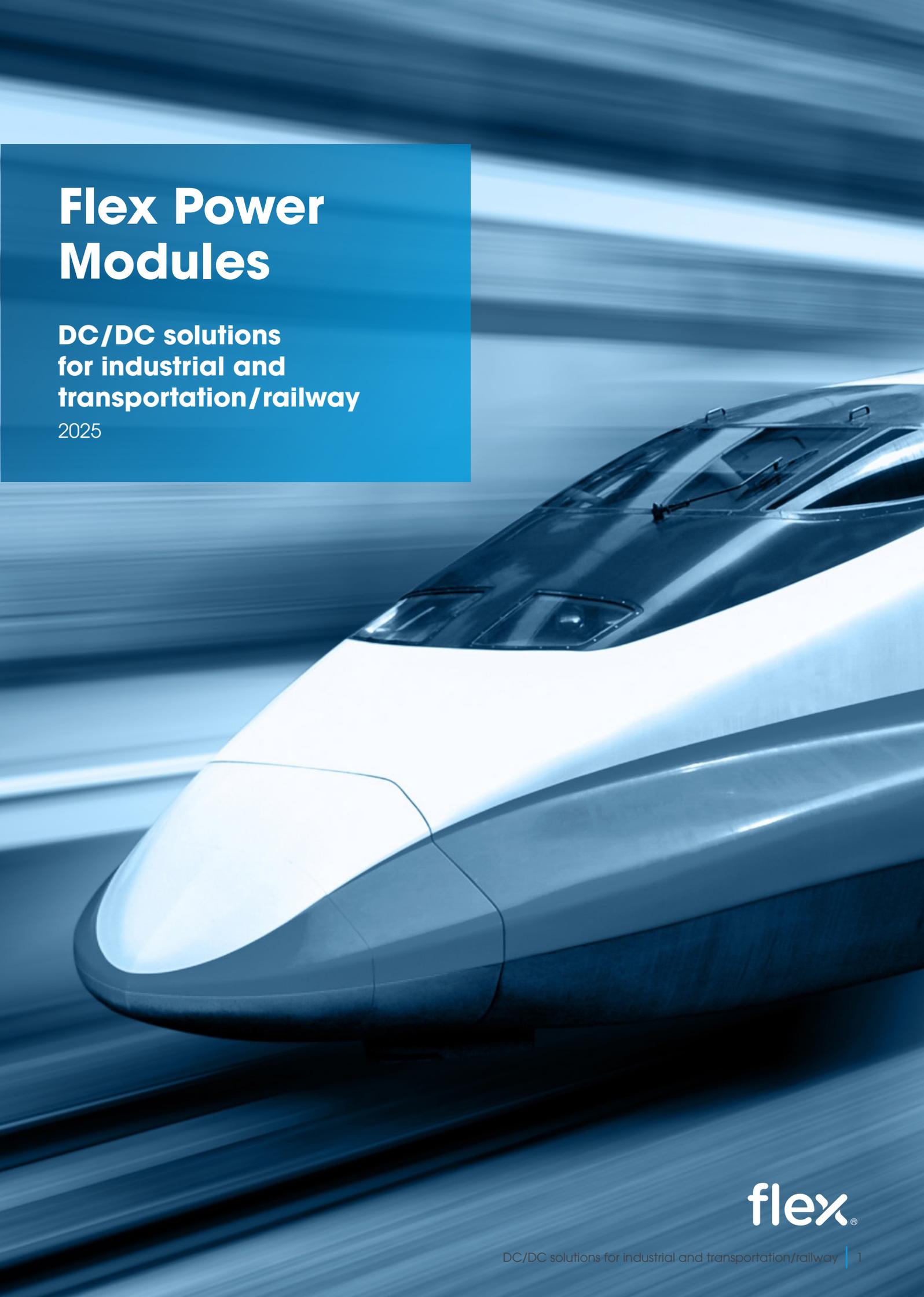


Flex Power Modules

**DC/DC solutions
for industrial and
transportation/railway**

2025



flex[®]

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Our DC/DC portfolio

The industrial market

The industrial market needs high reliability, high performance and rugged DC/DC solutions for a wide range of applications, including:

- Process control
- Factory automation
- Robotics
- Test and measurement
- Automatic test equipment
- Alternative energy
- Smart grids

These DC/DC solutions often run from 24V and/or 12V supply voltages, rather than the 48V more widely found in information and communication technology (ICT) applications.

Flex Power Modules has expanded its DC/DC portfolio for the industrial market.

Features of our industrial DC/DC converters

- Fully encapsulated designs in most cases
- Ultra-wide 4:1 and 8:1 input ranges
- Meets IEC/EN/UL62368-1 (previously 60950-1)
- Isolation voltages from 1500V to 6000V
- MTBF figures up to 171Mhrs

The transportation/railway market

Modern railway systems require a wide range of DC/DC converters to power monitoring and control units to help assure high reliability and high performance.

Meet stringent electrical and environmental specifications

Flex Power Modules provides a series of power modules for railway systems designed to meet the most stringent electrical and environmental specifications. These products can work under dust, moisture, severe vibration and other harsh conditions. Our transportation/railway DC/DC converters meet European standard EN 50155, the internationally recognized standard for railway applications.

Features of our transportation/railway DC/DC converters

- Compliant to EN50155
- Ultra-wide input ranges from 12-160V
- Up to 4000V Isolation

Power modules for industrial & 12/24/36/48V transportation

Digital and analog power modules for Radio Frequency Power Applications (RFPA), Microwave and Small Cell Applications, from smallest form factor of a 1/16 brick up to 1/2 brick size.

PUA-A series (1W) | SIP4

Key Features:

- No minimum load required
- Isolation voltage 2000V
- MTBF figures up to 13 Mhrs
- Meets IEC/EN/UL62368-1



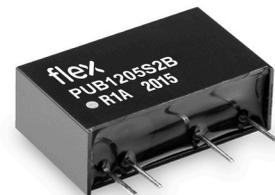
Dimensions: 11.5 x 6 x 10 mm (0.45 x 0.23 x 0.36 in)

| SERIES NAME | V _{IN} (V) | V _{OUT} (V) | POWER (W) | EFFICIENCY (%) | Isolation (V) |
|-------------|---------------------|----------------------|-----------|----------------|---------------|
| PUA-1A | 3.3/5/12/24 | 3.3/5/12/15 | 1 | 75-84 | 2000 |

PUB-B series (1-2W) | SIP7

Key Features:

- No minimum load required
- Isolation voltage 4000V
- MTBF figures up to 18 Mhrs
- Meets IEC/EN/UL62368-1



Dimensions: 19.7 x 7.1 x 11.5 mm (0.78 x 0.28 x 0.45 in)

| SERIES NAME | V _{IN} (V) | V _{OUT} (V) | POWER (W) | EFFICIENCY (%) | Isolation (V) |
|-------------|---------------------|--------------------------------------|-----------|----------------|---------------|
| PUB-1B | 3.3/5/12/15/24 | 3.3/12/±12/±15/ (+15/-9)/(+15/-3) | 1 | 74-82 | 4000 |
| PUB-2B | 3.3/5/12/24 | 3.3/12/±12/±15/ (+15/-9) | 2 | 77-86 | 4000 |

PUC-B series (1-2W) | SIP7

Key Features:

- No minimum load required
- Isolation voltage 6000V
- MTBF figures up to 15 Mhrs
- Meets IEC/EN/UL62368-1
- Reinforced insulation



Dimensions: 19.7 x 7.1 x 11.5 mm (0.78 x 0.28 x 0.45 in)

| SERIES NAME | V _{IN} (V) | V _{OUT} (V) | POWER (W) | EFFICIENCY (%) | Isolation (V) |
|-------------|---------------------|----------------------|-----------|----------------|---------------|
| PUC-1B | 5/12/15/24 | 3.3/5/12/±5/±12/±15 | 1 | 76-80 | 6000 |
| PUC-2B | 5/12/24 | 3.3/5/12/±5/±12/±15 | 2 | 77-85 | 6000 |

PUC-BG series (2W) | SIP7

Key Features:

- Designed for gate drive applications
- Isolation voltage 6200V
- Ultra low capacitance (< 6 pF)
- MTBF figures up to 13 Mhrs



Dimensions: 19.5 x 9.8 x 12.5 mm (0.77 x 0.39 x 0.49 in)

| SERIES NAME | V _{IN} (V) | V _{OUT} (V) | POWER (W) | EFFICIENCY (%) | Isolation (V) |
|-------------|---------------------|--|-----------|----------------|---------------|
| PUC-2BG | 12/15/24 | 5+15/-3; +15/-5 +15/-9; +15/-15 +17/-9; +18/-2.5 +18/-5; +18/-9 +20/-3.5; +20/-5 | 2 | 77-81 | 6200 |

PUB-M series (1-2W) | SMD

Key Features:

- No minimum load required
- Isolation voltage 3000V
- MTBF figures up to 18 Mhrs
- Meets IEC/EN/UL62368-1



Dimensions: 15.25 x 11.2 x 8 mm (0.6 x 0.44 x 0.31 in)

| SERIES NAME | V _{IN} (V) | V _{OUT} (V) | POWER (W) | EFFICIENCY (%) | Isolation (V) |
|-------------|---------------------|----------------------|-----------|----------------|---------------|
| PUB-1M | 5/12/24 | 5 | 1 | 75-81 | 3000 |
| PUB-2M | 5/12/24 | 5/12/24 | 2 | 78-83 | 3000 |

PKE (15-30W) | 1"x 1" package

Key Features:

- Fully encapsulated package
- Wide 4:1 input range
- Meets IEC/EN/UL62368-1 (previously 60950-1)
- Isolation voltage up to 1500V
- MTBF up to 5 Mhrs



Dimensions: 25.4 x 25.4 x 10.8 mm (1.0 x 1.0 x 0.43 in)

| SERIES NAME | V _{IN} RANGE (V _{DC}) | V _{OUT} NOMINAL (V _{DC}) | I _{OUT} (A) | POWER (W) | EFFICIENCY (%) |
|-------------|--|---|----------------------|-----------|----------------|
| PKE3210 | 9-36 | 3.3 | 4.5 | 15 | 84.6 |
| PKE3211 | 9-36 | 5 | 3 | 15 | 88 |
| PKE3213 | 9-36 | 12 | 1.3 | 15 | 86.5 |
| PKE3215 | 9-36 | 15 | 1 | 15 | 85.8 |
| PKE3221 | 9-36 | +12/-12 | 0.6/0.6 | 30 | 84 |
| PKE3321 | 9-36 | +12/-12 | 1.25/1.25 | 15 | 88 |
| PKE3225 | 9-36 | +15/-15 | 0.5/0.5 | 30 | 84 |
| PKE3325 | 9-36 | +15/-15 | 1/1 | 15 | 88 |
| PKE3310 | 9-36 | 3.3 | 7 | 23 | 87 |
| PKE3311 | 9-36 | 5 | 6 | 30 | 90 |
| PKE3313 | 9-36 | 12 | 2.5 | 30 | 90 |
| PKE3315 | 9-36 | 15 | 2 | 30 | 90 |
| PKE3316Z | 9-36 | 24 | 1.3 | 30 | 90 |
| PKE3316J | 9-36 | 48 | 0.6 | 30 | 89 |
| PKE3316H | 9-36 | 54 | 0.46 | 25 | 89 |
| PKE5210 | 18-75 | 3.3 | 4.5 | 15 | 84.1 |
| PKE5211 | 18-75 | 5 | 3 | 15 | 84.3 |
| PKE5213 | 18-75 | 12 | 1.3 | 15 | 86.3 |
| PKE5215 | 18-75 | 15 | 1 | 15 | 84.4 |
| PKE5221 | 18-75 | +12/-12 | 0.6/0.6 | 15 | 83 |
| PKE5321 | 18-75 | +12/-12 | 1.25/1.25 | 30 | 83 |
| PKE5225 | 18-75 | +15/-15 | 0.5/0.5 | 15 | 83 |
| PKE5325 | 18-75 | +15/-15 | 1/1 | 30 | 88 |
| PKE5310 | 18-75 | 3.3 | 7 | 23 | 87 |
| PKE5311 | 18-75 | 5 | 6 | 30 | 90 |
| PKE5313 | 18-75 | 12 | 2.5 | 30 | 90 |
| PKE5315 | 18-75 | 15 | 2 | 30 | 90 |
| PKE5316Z | 18-75 | 24 | 1.3 | 30 | 90 |
| PKE5316J | 18-75 | 48 | 0.6 | 30 | 89 |
| PKE5316H | 18-75 | 54 | 0.46 | 25 | 89 |

PKE-A (40-60W) | 1"x 2" package

Key Features:

- Fully encapsulated package
- Ultra-wide 8:1 input range
- Meets IEC/EN/UL62368-1 (previously 60950-1)
- Isolation up to 2250V
- MTBF up to 4 Mhrs



Dimensions: 50.8 x 25.4 x 11.9 mm (2.0 x 1.0 x 0.47 in)

| SERIES NAME | V _{IN} RANGE (V _{DC}) | V _{OUT} NOMINAL (V _{DC}) | I _{OUT} (A) | POWER (W) | EFFICIENCY (%) |
|-------------|--|---|----------------------|-----------|----------------|
| PKE8410A | 9-75 | 3.3 | 9.1 | 40 | 87 |
| PKE8411A | 9-75 | 5 | 8 | 40 | 88 |
| PKE8413A | 9-75 | 12 | 3.3 | 40 | 91 |
| PKE8415A | 9-75 | 15 | 2.7 | 40 | 89 |
| PKE8416ZA | 9-75 | 24 | 1.7 | 40 | 90 |
| PKE8416JA | 9-75 | 48 | 0.8 | 40 | 91 |
| PKE8416HA | 9-75 | 54 | 0.7 | 40 | 91 |
| PKE3611A | 9-75 | 5 | 12 | 60 | 90 |
| PKE3613A | 9-75 | 12 | 5 | 60 | 91 |
| PKE3616ZA | 9-75 | 24 | 2.5 | 60 | 91 |
| PKE3616JA | 9-75 | 48 | 1.25 | 60 | 91 |
| PKE3616HA | 9-75 | 54 | 1.11 | 60 | 91 |

PKU-E (50W) | 1/16 brick through hole and SMD package

Key Features:

- Open frame designs
- Wide 4:1 input range
- Meets IEC/EN/UL62368-1 (previously 60950-1)
- 2250V isolation
- MTBF figures up to 4.9 Mhrs



Dimensions: 33.02 x 22.86 x 9.4 mm (1.3 x 0.9 x 0.37 in)

| SERIES NAME | V _{IN} RANGE (V _{DC}) | V _{OUT} NOMINAL (V _{DC}) | I _{OUT} (A) | POWER (W) | EFFICIENCY (%) |
|-------------|--|---|----------------------|-----------|----------------|
| PKU5510E | 18-75 | 3.3 | 15 | 50 | 92 |
| PKU5511E | 18-75 | 5 | 10 | 50 | 92 |
| PKU5513E | 18-75 | 12 | 4.2 | 50 | 91.7 |

PKU-S (50W) | 1/16 brick

Key Features:

- Wide 4:1 input range
- Isolation voltage up to 2250V
- MTBF figures up to 8 Mhrs



Dimensions: 35.3 x 25 x 10.4 mm (1.39 x 0.98 x 0.41 in)

| SERIES NAME | V _{IN} RANGE (V _{DC}) | V _{OUT} NOMINAL (V _{DC}) | I _{OUT} (A) | POWER (W) | EFFICIENCY (%) |
|-------------|--|---|----------------------|-----------|----------------|
| PKU3510S | 9-36 | 3.3 | 15 | 50 | 90 |
| PKU3511S | 9-36 | 5 | 10 | 50 | 90 |
| PKU3513S | 9-36 | 12 | 4.2 | 50 | 88 |
| PKU3515S | 9-36 | 15 | 3.3 | 50 | 88 |
| PKU3516ZS | 9-36 | 24 | 2.1 | 50 | 91 |
| PKU5510S | 18-75 | 3.3 | 15 | 50 | 90 |
| PKU5511S | 18-75 | 5 | 10 | 50 | 90 |
| PKU5513S | 18-75 | 12 | 4.2 | 50 | 90 |
| PKU5515S | 18-75 | 15 | 3.3 | 50 | 90 |
| PKU5516ZS | 18-75 | 24 | 2.1 | 50 | 91 |

PKJ (200W) | 1/2 brick package

Key Features:

- Wide input range
- 4000V isolation



Dimensions: 61 x 57.9 x 12.7 mm (2.4 x 2.3 x 0.5 in)

| SERIES NAME | V _{IN} RANGE (V _{DC}) | V _{OUT} NOMINAL (V _{DC}) | I _{OUT} (A) | POWER (W) | EFFICIENCY (%) |
|-------------|--|---|----------------------|-----------|----------------|
| PKJ8213PI | 9-75 | 12 | 16.67 | 200 | 92 |
| PKJ8216ZPI | 9-75 | 24 | 8.33 | 200 | 92 |
| PKJ8216JPI | 9-75 | 48 | 4.17 | 200 | 92 |
| PKJ8216H | 9-75 | 54 | 3.7 | 200 | 92 |

PKB-D (240W) | 1/8 brick through hole and SMD package

Key Features:

- Wide 2:1 input range
- 2250V isolation
- MTBF figures up to 10 Mhrs



Dimensions: 58.4 x 22.7 x 9.6-13.2 mm (2.3 x 0.9 x 0.38-0.52 in)

| SERIES NAME | V _{IN} RANGE (V _{DC}) | V _{OUT} NOMINAL (V _{DC}) | I _{OUT} (A) | POWER (W) | EFFICIENCY (%) |
|-------------|--|---|----------------------|-----------|----------------|
| PKB2213D | 18-36 | 12 | 20 | 240 | 95 |
| PKB5213D | 18-60 | 12 | 20 | 240 | 95 |

Power modules for 72/96/110V railway systems

In the transportation sector DC/DC converters for railways have special characteristics and must withstand greater disruptive forces, are subject to greater demands for operational safety, durability and thermal shock.

PKE-A (30W) | 1"x 2" package

Key Features:

- Fully encapsulated package
- Wide 43-160 V input range for 72/96/110V applications
- Meets IEC/EN/UL62368-1 (previously 60950-1) and EN50155
- Isolation voltage up to 2250V
- MTBF figures up to 5 Mhrs



Dimensions: 50.8 x 25.4 x 11.4 mm (2.0 x 1.0 x 0.45 in)

| SERIES NAME | V _{IN} RANGE (V _{DC}) | V _{OUT} NOMINAL (V _{DC}) | I _{OUT} (A) | POWER (W) | EFFICIENCY (%) |
|-------------|--|---|----------------------|-----------|----------------|
| PKE7311API | 43-160 | 5 | 6 | 30 | 88 |
| PKE7313API | 43-160 | 12 | 2.5 | 30 | 90 |
| PKE7315API | 43-160 | 15 | 2 | 30 | 90 |
| PKE7316ZAPI | 43-160 | 24 | 1.3 | 30 | 89 |
| PKE7316JAPI | 43-160 | 48 | 0.6 | 30 | 88 |
| PKE7316HAPI | 43-160 | 54 | 0.5 | 30 | 88 |

PKM-A (100-150W) | 1/4 brick package

Key Features:

- Fully encapsulated package
- Wide 60-160V input range for 110V applications
- Meets IEC/EN/UL62368-1 (previously 60950-1) and EN50155
- Isolation voltage up to 4000V
- MTBF figures up to 4 Mhrs

Dimensions: 57.9 x 36.8 x 12.7 mm (2.28 x 1.45 x 0.5 in)



PKM-A with heatsink



PKM-A

| SERIES NAME | V _{IN} RANGE (V _{DC}) | V _{OUT} NOMINAL (V _{DC}) | I _{OUT} (A) | POWER (W) | EFFICIENCY (%) |
|-------------|--|---|----------------------|-----------|----------------|
| PKM7111A | 60-160 | 5 | 20 | 100 | 86 |
| PKM7113A | 60-160 | 12 | 8.3 | 100 | 86 |
| PKM7115A | 60-160 | 15 | 6.7 | 100 | 86 |
| PKM7116ZA | 60-160 | 24 | 4.2 | 100 | 89 |
| PKM7116JA | 60-160 | 48 | 2.1 | 100 | 90 |
| PKM7116HA | 60-160 | 54 | 1.85 | 100 | 90 |
| PKM7213A | 60-160 | 12 | 12.5 | 150 | 86 |
| PKM7215A | 60-160 | 15 | 10 | 150 | 88 |
| PKM721ZA | 60-160 | 24 | 6.3 | 150 | 89 |
| PKM7216JA | 60-160 | 48 | 3.13 | 150 | 90 |
| PKM7216HA | 60-160 | 54 | 2.78 | 150 | 90 |

PKJ (200-300W) | 1/2 brick packagee

Key Features:

- Fully encapsulated package
- Wide 60-160V input range for 110V applications
- Meets IEC/EN/UL62368-1 (previously 60950-1) and EN50155
- 4000V isolation
- MTBF figures up to 5 Mhrs



Dimensions: 61 x 57.9 x 12.7 mm (2.4 x 2.3 x 0.5 in)

| SERIES NAME | V _{IN} RANGE (V _{DC}) | V _{OUT} NOMINAL (V _{DC}) | I _{OUT} (A) | POWER (W) | EFFICIENCY (%) |
|-------------|--|---|----------------------|-----------|----------------|
| PKJ7213PI | 60-160 | 12 | 16.8 | 200 | 89 |
| PKJ7217KPI | 60-160 | 13.8 | 14.5 | 200 | 89 |
| PKJ7215PI | 60-160 | 15 | 14.5 | 200 | 89 |
| PKJ7216ZPI | 60-160 | 24 | 8.4 | 200 | 91 |
| PKJ7216JPI | 60-160 | 48 | 4.2 | 200 | 91 |
| PKJ7216HPI | 60-160 | 54 | 3.7 | 200 | 91 |
| PKJ7313PI | 60-160 | 12 | 25 | 300 | 89 |
| PKJ7317KPI | 60-160 | 13.8 | 21.7 | 300 | 89 |
| PKJ7315PI | 60-160 | 15 | 20 | 300 | 89 |
| PKJ7316ZPI | 60-160 | 24 | 12.5 | 300 | 90 |
| PKJ7316JPI | 60-160 | 48 | 6.3 | 300 | 90 |
| PKJ7316HPI | 60-160 | 54 | 5.6 | 300 | 91 |

Ultra-wide input power modules for 24-110V railway applications

PKM-W (50-150W) | 1/4 brick package

Key Features:

- Fully encapsulated package
- Ultra-wide 12/14-160V input range for universal railway applications
- Meets IEC/EN/UL62368-1 (previously 60950-1) and EN50155
- 4000V isolation
- MTBF figures up to 5.8 Mhrs



| SERIES NAME | V _{IN} RANGE (V _{DC}) | V _{OUT} NOMINAL (V _{DC}) | I _{OUT} (A) | POWER (W) | EFFICIENCY (%) |
|--------------|--|---|----------------------|-----------|----------------|
| PKM7510WPI | 12-160 | 3.3 | 15.2A | 50 | 86 |
| PKM7511WPI | 12-160 | 5 | 10 | 50 | 87 |
| PKM7513WPI | 12-160 | 12 | 4.17 | 50 | 90 |
| PKM7517KWPI | 12-160 | 13.8 | 3.62 | 50 | 90 |
| PKM7515WPI | 12-160 | 15 | 3.33 | 50 | 90 |
| PKM7516ZWPI | 12-160 | 24 | 2.08 | 50 | 90 |
| PKM7516JWPI | 12-160 | 48 | 1.04 | 50 | 89 |
| PKM7516HWPI | 12-160 | 54 | 0.93 | 50 | 89 |
| PKM7111WPI | 14-160 | 5 | 20 | 100 | 89 |
| PKM7113WPI | 14-160 | 12 | 8.34 | 100 | 87 |
| PKM7117KWPI | 14-160 | 13.8 | 7.24 | 100 | 90 |
| PKM7115WPI | 14-160 | 15 | 6.66 | 100 | 90 |
| PKM7116ZWPI | 14-160 | 24 | 4.16 | 100 | 90 |
| PKM7116JWPI | 14-160 | 48 | 2.08 | 100 | 89 |
| PKM7116HWPI | 14-160 | 54 | 1.86 | 100 | 89 |
| PKM7213WPI* | 14-160 | 12 | 12.5 | 150 | 91 |
| PKM7216ZWPI* | 14-160 | 24 | 6.2 | 150 | 91 |
| PKM7216JWPI* | 14-160 | 48 | 3.13 | 150 | 91 |
| PKM7216HW | 14-160 | 54 | 2.78 | 150 | 89 |

* = Hold Up (boosted BUS pin to minimize external caps)

PKJ-W (200W) | 1/2 brick package

Key Features:

- Fully encapsulated
- Ultra-wide input voltage 14-160V
- EN50155 compatible
- 4000V isolation

Dimensions: 61x57.9x12.7 mm



| SERIES NAME | V _{IN} RANGE (V _{DC}) | V _{OUT} NOMINAL (V _{DC}) | I _{OUT} (A) | POWER (W) | EFFICIENCY (%) |
|-------------|--|---|----------------------|-----------|----------------|
| PKJ7213W | 14-160 | 12 | 16.7 | 200 | 90 |
| PKJ7215W | 14-160 | 15 | 13.3 | 200 | 90 |
| PKJ7217KW | 14-160 | 13.8 | 14.5 | 200 | 90 |
| PKJ7216ZW | 14-160 | 24 | 8.3 | 200 | 90 |
| PKJ7216JW | 14-160 | 48 | 4.2 | 200 | 90 |
| PKJ7216HW | 14-160 | 54 | 3.7 | 200 | 90 |

Point of Load (PoL)

Flex Power Modules has also a wide range of Point of Load (PoL) products. Here is a selection of our PoL products, applicable for industrial, transportation and ICT market. The BMR-families below incorporate a digital interface for easy monitoring, configuration and control.

PNA



PMU



BMR461



BMR462



BMR463



BMR464



BMR466



BMR469



BMR474



BMR473



| SERIES NAME | V_{IN} (V) | V_{OUT} (V) | I_{OUT} (A) | PACKAGE |
|-------------|--------------|---------------|---------------|------------|
| PMU | 4.5-17 | 0.6-5.0 | 4/6/8 | LGA |
| BMR461 | 4.5-14 | 0.6-5.0 | 6/12/18 | LGA (BGA) |
| BMR463 | 4.5-14 | 0.6-3.3 | 20/25 | TH/SMD/SIP |
| BMR464 | 4.5-14 | 0.6-3.3 | 40/50 | TH/SMD/SIP |
| BMR466 | 4.5-14 | 0.6-1.8 | 60 | LGA (BGA) |
| BMR469 | 7.5-14 | 0.6-5.0 | 2x40/2x25 | SMD |
| BMR474 | 6.0-15 | 0.6-3.3 | 80 | SIP |
| BMR473 | 6.0-15 | 0.6-5.0 | 40 | SIP/BGA |
| PNA | 9-36 | 0.9-5.5 | 6 | LGA |

For more information, please visit flexpowermodules.com or email us at pm.info@flex.com.

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