# PBDRD15 Series

DIN RAIL DC/DC CONVERTER

## FEATURES

- 15W DC/DC Converter
- DIN Rail Mounting
- 9-36V Input Range
- Short Circuit Protection
- Internal input filter
- Low Profile.




## SPECIFICATIONS

| INPUT | |
|---|---|
| Input voltages | 12Vdc, 24Vdc |
| Input voltage range | 9V to 36Vdc |
| **OUTPUT** | |
| Output Power | 15W |
| Output Voltage | See selection table |
| Output voltage accuracy | ±1% |
| Line & Load regulation | ±1% |
| Efficiency | ±Up to 85% |
| Startup time | 50ms |
| Transient recovery time | 1ms |
| Ripple &noise | 100mV |
| Switching frequency | 100 to 200Khz |
| Efficiency | 81% Typical |
| **STANDARDS & APPROVALS** | |
| UL/cUL | UL 508 |
| cTUVus | UL 60950-I Recognized |
| CE | EN 61000-6-3, EN 55022 Class B<br>EN 61000-6-2, EN 55024, EN 61000-4-2,<br>EN 61000-4-3, EN 61000-4-4<br>EN61000-4-5, EN 61000-4-6, EN 61000-4-8,<br>ENV 50204, EN 61204-3 |
| Vibration resistance | Meet IEC 60068-2-6 (Mounting on rail:10-500 Hz, 2G, along X, Y, Z each Axis, 60 min for each Axis |
| Shock resistance | Meet IEC 60068-2-27 (15G, 11ms, 3Axis, 6 Faces. 3 times for each face) |

| PROTECTION | |
|---|---|
| Input fuse | T3A/63VDC internal |
| Over voltage protection | Yes Auto Recovery |
| Rated over load protection | 110 to 165 % |
| Internal surge voltage protection | IEC 61000-4-5, Varistor |
| Output short circuit | Current limited (Auto-recovery) |
| Degree of protection | IP20 |
| Isolation voltage | 1500Vdc |
| Isolation resistance | 100M ohm |
| MTBF | >689,000hrs |
| **ENVIRONMENTAL** | |
| Operating temperature | -40 to +71C |
| Derating | Derate from +51 ˚C to +71˚C at 2.5%/C |
| **INDICATORS** | |
| DC ON | Indicator threshold at start up (Green LED) |
| DC LOW | Indicator threshold after start up (Red LED) |
| Remote ON/OFF | Yes |
| **MECHANICAL** | |
| Case size | 91 x 18 x 56.5mm |
| Case material | Plastic |
| Weight | 65 g |

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## SELECTION TABLE

| MODEL | INPUT VOLTAGE | OUTPUT VOLTAGE | OUTPUT CURRENT | POWER |
|---|---|---|---|---|
| PBDRD15-03 | 9-36Vdc | 3.3V | 3.5A | 11.5W |
| PBDRD15-05 | 9-36Vdc | 5V | 2.7A | 13.5W |
| PBDRD15-09 | 9-36Vdc | 9V | 1.5A | 13.5W |
| PBDRD15-12 | 9-36Vdc | 12V | 1.25A | 15W |
| PBDRD15-15 | 9-36Vdc | 15V | 1A | 15W |
| PBDRD15-24 | 9-36Vdc | 24V | 0.63A | 15W |

## TECHNICAL ILLUSTRATIONS

