

PBDRD30 Series

DIN RAIL DC/DC CONVERTER

FEATURES

- 30W 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	9 to 36Vdc
OUTPUT	
Output Power	30W
Output Voltage	see selection table
Output voltage accuracy	±1%
Line & Load regulation	±1%
Switching frequency	100 to 200Khz
Startup time	50ms
Transient recovery time	1ms
Ripple & noise	100mV
Efficiency	>83%
STANDARDS & APPROVALS	
UL/cUL	EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-6, EN 61000-4-8, EN 61204-3
cTUVus	EN 60950-1 Meet IEC 60068-2-6 (Mounting by rail : 10- 500 Hz, 2G, along X, Y, Z each Axis, 60 min for each Axis)
CE	EN 61000-6-3, EN 55022 Class B EN 61000-6-2, EN 55024, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4 EN61000-4-5, EN 61000-4-6, EN 61000-4-8, 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)
Isolation voltage	1500Vdc
Isolation resistance	100M ohm
Degree of protection	IP20
MTBF	>689,000hrs
INDICATORS	
DC ON	Indicator threshold at start up (Green LED)
DC LOW	Indicator threshold after start up (Red LED)
Remote ON/OFF	Yes
ENVIRONMENTAL	
Operating temperature	-40 to +71C
Derating	Derate from +51 °C to +71°C at 2.5%/C
MECHANICAL	
Dimensions	91 x 35 x 56.5mm
Case material	Plastic
Weight	120g

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SELECTION TABLE

MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	POWER
PBDRD30-05	9-36Vdc	5V	4.5A	22W
PBDRD30-09	9-36Vdc	9V	2.8A	25W
PBDRD30-12	9-36Vdc	12V	2.5A	30W
PBDRD30-15	9-36Vdc	15V	2A	30W
PBDRD30-24	9-36Vdc	24V	1.25A	30W

TECHNICAL ILLUSTRATIONS

mm [inch]

