

# BDS250 SERIES

## AC / DC Single Output: 250 Watts



### Features

- Universal input 85 - 265VAC
- Convection cooled ( no fans )
- Output voltage adjustment
- Short circuit and OVP protection
- Power Factor & Harmonic correction 0.95 / EN61000-3-2
- EMC EN55022-B, Immunity to EN61000-4
- High Efficiency 92.7%
- Stand alone industrial case

### Specifications

<b>Input Voltage</b>	85 ~ 264VAC ( 120 ~ 370VDC )
<b>Input Current</b>	3.0 ~ 1.4A @ 115 ~ 230VAC
<b>Power Factor</b>	0.98~ 0.95 @ 115 ~ 230VAC
<b>Leakage Current</b>	<0.75mA at 240vac
<b>Harmonics</b>	EN61000-3-2
<b>Output Power</b>	250 watts
<b>Efficiency</b>	Model dependent: 92-93%
<b>Output Voltage</b>	See table
<b>Ripple &amp; Noise</b>	Model dependent: 15 ~480mV ( 12 ~ 48V )
<b>Line Regulation</b>	Model dependent: 48 ~192mV ( 12V ~ 48V )
<b>Load Regulation</b>	Model dependent: 96 ~384mV ( 12V ~ 48V )
<b>Temp Co-efficient</b>	0.02% per °C
<b>Overload Protection</b>	12V models, Hiccup 24-48V models Constant current limiting. With auto recovery
<b>Overvoltage Protection</b>	OVP will shutdown unit. Recycle AC power after 30 seconds to restart.
<b>Over Temp. Protection</b>	OTP will shutdown unit. Recycle AC power after 30 seconds to restart
<b>Hold-Up time</b>	Typically 16ms
<b>Parallel Operation</b>	NO
<b>Operating Temp.</b>	-25°C to +70°C ( Refer to Manual )
<b>Humidity</b>	30 ~ 90% RH no dewdrop
<b>Cooling</b>	Convection cooled
<b>Isolation</b>	Input – Output / Case: 3000VAC / 2000VAC Output – Case: 500VAC
<b>Safety</b>	Internal modules Approvals: UL60950, EN60950-1
<b>EMI</b>	EN55011 / EN55022 – B
<b>Immunity</b>	EN61000-4-2, -3, -4, -5, -6, -8, -11.
<b>Dimensions</b>	330 x 150 x 75mm 900g ( Includes terminals)

### Description

The **BDS250** series power supply is designed for a wide range of industrial applications that require a stand-alone solution with mains power cord.

The output is via high quality Phoenix terminals and input via an IEC inlet socket.

It provides 250 watts without any fan cooling and with efficiency of 92%, it has the ability to outperform other power supplies in the most demanding of applications.

Model	Output		Voltage Range	Power W
	V	A		
<b>BDS250-12</b>	12V	21A	10.8~13.2V	252W
<b>BDS250-24</b>	24V	10.5A	22~28.8V	252W
<b>BDS250-36</b>	36V	8.4A	32~40V	252W
<b>BDS250-48</b>	48V	5.3A	42~57.6V	252W

#### Note:

- 24 & 36V models have peak output power 300W.