

BDS500 SERIES

AC/DC Power Supplies Single Output: 500 Watts



Features

- Universal input 85 - 265VAC
- 500 watts output power
- Stand alone industrial case
- Short circuit and OVP protection
- Power Factor & Harmonic correction 0.95 / EN61000-3-2
- EMC EN55022-B, Immunity to EN61000-4
- High Efficiency 90%
- Peak Power 120% for 24V & 36V models

Specifications

Input Voltage	85 ~ 264VAC (120 ~ 370VDC)
Input Current	5.5 ~ 2.7A @ 115 ~ 230VAC
Power Factor	0.98~ 0.95 @ 115 ~ 230VAC
Leakage Current	<0.75mA at 240vac
Standby Input Power	<0.5 watts Standby output voltage 5V 300mA
Harmonics	EN61000-3-2
Output Power	500 watts
Efficiency	90%
Output Voltage	See table
Ripple & Noise	Model dependent: 15 ~480mV (12 ~ 48V)
Line Regulation	Model dependent: 48 ~192mV (12V ~ 48V)
Load Regulation	Model dependent: 96 ~384mV (12V ~ 48V)
Temp Co-efficient	0.02% per °C
Overload Protection	12V models, Hiccup 24-48V models Constant current limiting. With auto recovery
Overvoltage Protection	OVP will shutdown unit. Recycle AC power after 30 seconds to restart.
Over Temp. Protection	OTP will shutdown unit. Recycle AC power after 30 seconds to restart
Hold-Up time	Typically 16ms
Output LED	Optional
Parallel Operation	NO
Operating Temp.	-25°C to +50°C, derate by 2.5%/°C to 70°C
Humidity	30 ~ 90% RH no dewdrop
Cooling	Internal fan
Isolation	Input – Output / Case: 4.25Kvdc / 2.25kVDC Output – Case: 500VDC
Safety	Approvals: UL60950, EN60950-1. (internal modules)
EMI	EN55022 – B
Immunity	EN61000-4-2, -3, -4, -5, -6, -8, -11.
Dimensions	330 x 150 x 75mm 1.2kg (Includes terminals)

Description

The **BDS500** 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 500 watts output power with efficiency of 90%, it has the ability to outperform other power supplies in the most demanding of applications.

Model	Output V	Output A	Voltage Range	Power W
BDS500-12	12V	42A	10.8~13.2V	504W
BDS500-24	24V	21A	22~28.8V	504W
BDS500-36	36V	14A	32~40V	504W
BDS500-48	48V	10.5A	42~57.6V	504W

Note:
24 & 36V models have peak output power 600W.