

# BDS Series

AC/DC Single Output: 75-300 Watts



## Specifications

<b>Input Voltage</b>	85 ~ 264VAC ( 120 ~ 370VDC ) ( 110 / 230VAC 150W models )
<b>Power Factor</b>	0.95 200-300W models
<b>Harmonics</b>	EN61000-3-2
<b>Output Power</b>	75 ~ 300 watts
<b>Efficiency</b>	Model dependent: 67 ~ 85%
<b>Output Voltage</b>	See table
<b>Ripple &amp; Noise</b>	Model dependent: 80 ~ 200mV ( 3.3V ~ 48V ) <b>Line</b>
<b>Regulation</b>	Model dependent: 20 ~ 192mV ( 3.3V ~ 48V )
<b>Load Regulation</b>	Model dependent: 40 ~ 384mV ( 3.3V ~ 48V )
<b>Temp Co-Eff.</b>	0.02% per °C
<b>Overload Protection</b>	Current limiting, with auto recovery ( 200 & 300 watts , with constant current )
<b>Overvoltage Protection</b>	OVP will shutdown unit. Recycle AC power after 30 seconds to restart.
<b>Over temperature Protection</b>	OTP will shutdown unit. Recycle AC power after 30 seconds to restart. ( 200 / 300W models )
<b>Hold-Up time</b>	Typically 20ms
<b>Parallel Operation</b>	NO
<b>Operating Temp.</b>	-25°C to +50°C @ 100% load, +70°C @ 50% load.
<b>Humidity</b>	10 ~ 90% RH no dewdrop
<b>Cooling</b>	75 ~ 150W convection cooled 200 ~ 300W Forced air by internal fan
<b>Isolation</b>	Input – Output: 3000VAC Input – Case: 2000VAC Output – Case: 500VAC
<b>Safety</b>	Internal module approvals: UL60950-1, EN60950-1, EN50178
<b>EMI</b>	EN55011 / EN55022 – A
<b>Immunity</b>	EN61000-4-2, -3, -4, -5, -6, -8, -11.
<b>Dimensions</b>	300 x 150 x 75mm ( 0.5 ~ 1.5kg ) ( Includes terminals)

## Features

- Universal input 85 - 264VAC
- Stand Alone industrial power supply
- Five power levels, 75 ~ 300 watts output power
- Low cost solution for industrial applications.
- Output voltage adjustment
- Short circuit and OVP protection
- Harmonic correction EN61000-3-2
- Power Factor 0.95
- EMC EN55022-B
- Immunity to EN61000-4
- Some models suitable for battery charging

## Description

The **BDS Series** power supplies were designed for a range of Industrial applications, requiring a stand-alone solution, with mains power cord for AC power connection.

This allows the use of these power supplies in workshops or in fixed installations, with the AC power connection fully protected by the use of an IEC socket and mains power cord. The DC output is on heavy duty 30A terminals.

The internal of these units, is a standard dc power supply module that has a proven track record and reliability.

Voltage adjustment is by way of a trim-pot ( on internal modules ), allowing for a minimum 10% voltage adjustment.

Some of these units can also be used as a combined Power Supply / Battery Charger, offering a low cost & reliable Battery Back-up solution.

# BDS Series

AC/DC Single Output: 75-300 Watts



Model	Output		Voltage Range	Power W
	V	A		
BDS75-3	3.3V	15A	3.0-3.6V	75W
BDS75-5	5V	12A	4.75-5.5V	
BDS75-12	12V	6A	10.8-13.2V	
BDS75-15	15V	5A	13.5-16.5V	
BDS75-24	24V	3.2A	22.0-27.2V	
BDS75-36	36V	2.1A	32.0-40.0V	
BDS75-48	48V	1.6A	42.0-54.0V	
BDS100-3	3.3V	20A	3.0-3.3V	
BDS100-5	5V	16A	4.75-5.5V	
BDS100-12	12V	8.5A	10.8-13.2V	
BDS100-15	15V	7A	13.5-16.5V	
BDS100-24	24V	4.5A	22.0-27.2V	
BDS100-36	36V	3A	32.0-40.0V	
BDS100-48	48V	2.3A	42.0-54.0V	
BDS150-3	3.3V	30A	3.0-3.3V	150W
BDS150-5	5V	26A	4.75-5.5V	
BDS150-12	12V	12.5A	10.8-13.2V	
BDS150-15	15V	10A	13.5-16.5V	
BDS150-24	24V	6.5A	22.0-27.2V	
BDS150-36	36V	4.3A	32.0-40.0V	
BDS150-48	48V	3.3A	42.0-54.0V	

Model	Output		Voltage Range	Power W
	V	A		
BDS200-3.3	3.3V	40A	3.0~3.6V	132W
BDS200-5	5.0V	40A	4.7 ~ 5.5V	200W
BDS200-7.5	7.5V	26.7A	6.8~8.2V	200W
BDS200-12	12V	16.7A	10.8~14.4V	200W
BDS200-15	15V	13.4A	13.5~16.5V	200W
BDS200-24	24V	8.4A	22.0~ 28.8V	200W
BDS200-36	36V	5.6A	32.0~40V	200W
BDS200-48	48V	4.2A	42.0 ~ 57.6V	200W

- LS200-24 & LS200-36 Peak Output power 250W

Model	Output		Voltage Range	Power W
	V	A		
BDS300-12	12V	26A	9.6~13.2V	312W
BDS300-15	15V	21A	13.20~18.6V	315W
BDS300-24	24V	13A	20.0~ 28.8V	313W
BDS300-28	28V	11A	22.4 ~33.6V	312W
BDS300-36	36V	8.7A	28.8~40V	313W
BDS300-48	48V	6.3A	43.0 ~ 52.8V	300W

Model	Output		Voltage Range	Power W
	V	A		
BDS200-12B	13.8V	13.4A	13.5 ~16.5V	200W
BDS200-48B	54V	4.2A	42.0 ~ 57.6V	200W
BDS300-12B	13.8V	21A	13.2~18V	300W
BDS300-24B	27.6V	11A	20~28.8V	300W
BDS300-48B	54V	5.6A	40-57.6V	300W

- Battery Charging models

REV 23-11-2022