

BDS SERIES

AC / DC Single Output: 75 ~ 300 Watts



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

Specifications

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

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.

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Model	Output V A	Voltage Range	Power W
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	100W
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 V A	Voltage Range	Power W
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 V A	Voltage Range	Power W
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 6.7A	40.0 ~ 57.6V	320W

Model	Output V A	Voltage Range	Power W
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