

## BSL600 Series

**600 Watts**

**Single Output Switching Power Supply**

### Features:

- \* Small 9.00 x 3.70 x 1.60" Package
- \* Internal Ball Bearing Fans for Self-Cooled Operation
- \* Dual Auxiliary Outputs
  - + 5V @ 4A
  - + 12V @ 500mA
- \* Universal AC Input (47-63 Hz) with Active PFC
- \* 100,000 hours MTBF (25°C Full Load Operation)
- \* Optional -40°C Operating Temperature
- \* International Safety Approvals & CE Mark
- \* Class B Emissions
- \* 3 Year Warranty



### Input Specifications:

Input Range	Universal VAC (90-264 VAC) & 120-370 VDC
Input Frequency	47-63 Hz or DC
Inrush Current	25A @ 115VAC / 50A @ 230VAC max (cold start)
Input Current	9A @ 90 VAC / 3.5A @ 200 VAC Maximum
Input Reflected Ripple	FCC 68 part 15 Class B
Efficiency	83% Typical @ 120VAC (depending on output model)
Input Protection	Single Fused (10 Amp / 250 V)
Hold-up Time	One Cycle Minimum @ 120 VAC and 80% load
Leakage Current	<750µA maximum @ 264 VAC
Harmonics	EN61000-3-2 Class D

### Output Specifications:

Adjustment Range	V1 Only, ±10%
Minimum Load	None
Regulation	V1 & V2 = 3%   V3 = 8% max
Ripple / Noise	± 1% pk-pk max (20MHz)
Transient Response	+/- 5% Deviation / < 1msec recovery
Set-Point Accuracy	±2%
Short Circuit Protection	Continuous
Over Load Protection	120-150%, auto-recovery (see app note, sect 1.1)
Over Voltage Protection	120-150%, Latch off (see app note, sect 1.2)

### Emissions Standards

FCC Part 15J, Part 2	Within Class B Limits
EN55022 / CISPR22	Within Class B Limits

### Status / Control Signals

* AC FAIL	TTL Signal
* REMOTE ON/OFF	Inhibit is Standard, Optional Enable Function
* REMOTE SENSE	Optional, compensates for <250mV
* POWER GOOD	TTL Signal

### Electromagnetic Compatibility:

Electrostatic Discharge	EN61000-4-2, ±4KV Contact / ±8KV Air Discharge
Radiated Susceptibility	EN61000-4-3, 26-1000MHz, 10V/M, 80% AM
EFT / Bursts	EN61000-4-4, ± 2KV
Surges	EN61000-4-5, ±2KV Line-Earth, ±1KV Line-Line
Conducted Immunity	EN61000-4-6, 0.15 - 800MHz, 10V, 80% AM
Voltage Dips	EN61000-4-11, 95% Dip & 10ms, 30% Dip & 500ms
Voltage Interruptions	EN61000-4-11, 95% Reduction, 5s
Radiated Emissions	FCC 68 part 15 Class B
Conducted Emissions	FCC 68 part 15 Class B
Harmonic Current	EN61000-3-2 Class D
Fluctuations & Flicker	EN61000-3-3

### Environmental Specifications:

Operating Temp	0 ~ 50°C (De-Rate 2.5%/1°C Rise To +70°C)
Storage Temp	-20 ~ +85°C
Cooling	Internal Ball Bearing Fans
Humidity	5 to 95% RH Non-Condensing
Vibration	3 Axes 1 Oct/min, 5 min at 4 Res. 0.75G Pk, 5-500Hz
Shock	20G Peak Acceleration
Reliability	>100k hours MTBF (Full Load and 25°C Operation)

### International Safety Approvals

Standards	UL 60950-1, File # 158470
	EN60950-1
	CB Report
	CE Mark (LVD)

**Output Table:**

**BSL600 Series**

Model Number	Power	V1	A1	V2	A2	V3	A3
BSL600-12V	530W	12VDC	42.0A	5VDC	4A	12VDC	0.5A
BSL600-15V	566W	15VDC	36.0A	5VDC	4A	12VDC	0.5A
BSL600-24V	578W	24VDC	23.0A	5VDC	4A	12VDC	0.5A
BSL600-28V	586W	28VDC	20.0A	5VDC	4A	12VDC	0.5A
BSL600-36V	602W	36VDC	16.0A	5VDC	4A	12VDC	0.5A
BSL600-48V	626W	48VDC	12.5A	5VDC	4A	12VDC	0.5A
BSL600-57V	624W	57VDC	10.5A	5VDC	4A	12VDC	0.5A

**Mechanical Specifications:**

Construction: Enclosed with Fan

Weight: 2.827 lb / 1.285 kg

