

For low-noise Applications (e.g. Medical, Measurement, Analysis, System Control)

# 15, 30, 60 Watt BLN Series



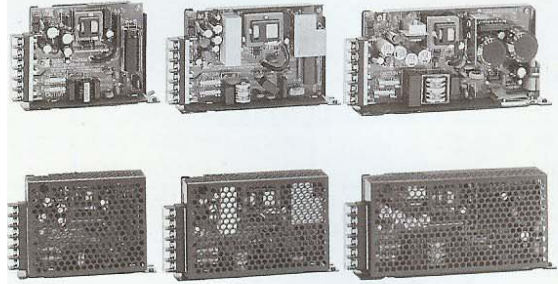
Ultra Low Noise, Small Size Single and Dual Output AC-DC Power Supply/BLN Series

Low Noise (10mVpp), High Isolation type (AC4000V) AC-DC Resonance type Switching Power Supply

**Input: AC85V ~ 264V    Output: 5V, 12V, 15V, ±15V, 24V**

## Power Supply Device of Ultra Low Noise comparable with Series Regulators

- EN60601-1 Approved (usable for Medical Purposes)
- Low Ripple voltage (5mVpp), noise(10mVpp)
- Input Voltage: AC85V to AC264V
- CE marking compliant (pursuant to Low Voltage Directive)
- UL1950, CSA950, EN60950 Approved
- Newest SMZ Resonance Circuit
- Voltage Durability 4000V, Leak current: not greater than 50  $\mu$  A
- Parallel Operation possible (under 60W Series OCP coordination)
- Low Noise Terminal Voltage (a margin of 20dB under the VCCI, FCC, CISPR class B regulations)
- Low Noise electric field strength (VCCI class B, FCC Class B, CISPR class B compliant)
- Operating Temperature -10°C to 60°C (derating is required at -10 to 0°C and 50 to 60°C)
- RoHS compliant



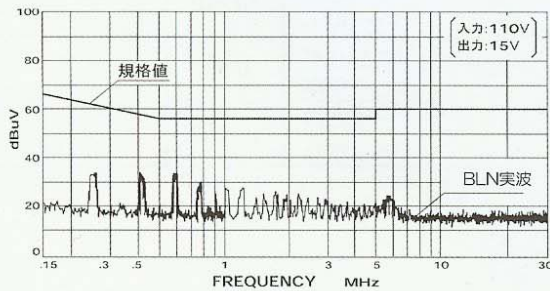
Capacity	Model	Input Voltage	Output Voltage/Current	Dimensions (W×D×H)	Insulation Durability	Ripple noise		
15W	BLN-05S3R0-M	AC85V to 264V continuous	5V, 3A	34×140×92	AC4000V	10mVpp		
	BLN-15S1R3-M		15V 1.3A					
	BLN-15WR65-M		±15V 0.65A					
30W	BLN-05S6R0-M		5V 6A	34×166×92			AC4000V	10mVpp
	BLN-12S3R0-M		12V 3A					
	BLN-15S2R6-M		15V 2.6A					
	BLN-15W1R3-M	±15V 1.3A						
60W	BLN-05S10R0-M	AC85V to 132V AC170V to 264V Auto Switch	5V 10A	38×200×92	AC4000V	10mVpp		
	BLN-12S5R2-M		12V 5.2A					
	BLN-15S5R2-M		15V 5.2A					
	BLN-24S3R5-M		24V 3.5A					

Ultra Low Noise Power Supply Applications

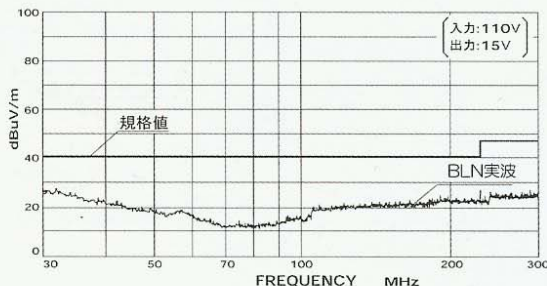
- Medical Instrument
- Measurement Instrument
- Analysis Instruments
- Broadcast equipment
- Semiconductor devices
- Audio appliance
- Control Systems

-This catalogue only presents general descriptions of the products. Please refer to data sheets when you design a system.  
-Cover: Standard products are not provided with covers. Please put "C" following the model number when ordering products with covers. (Example) BLN-05S3R0-MC.

□ BLN series, Noise Terminal Voltage



□ BLN Series, Noise Electric Field Strength

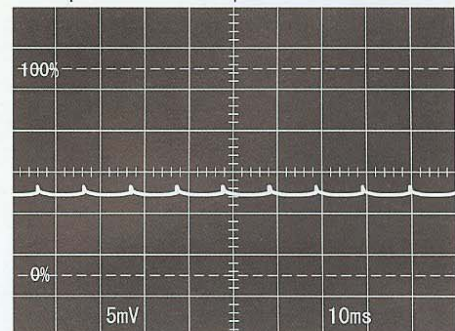


### Achieved UL, CSA, EN Standards

The newest SMZ circuit is featured. New resonant circuit has brought products close to noiseless.

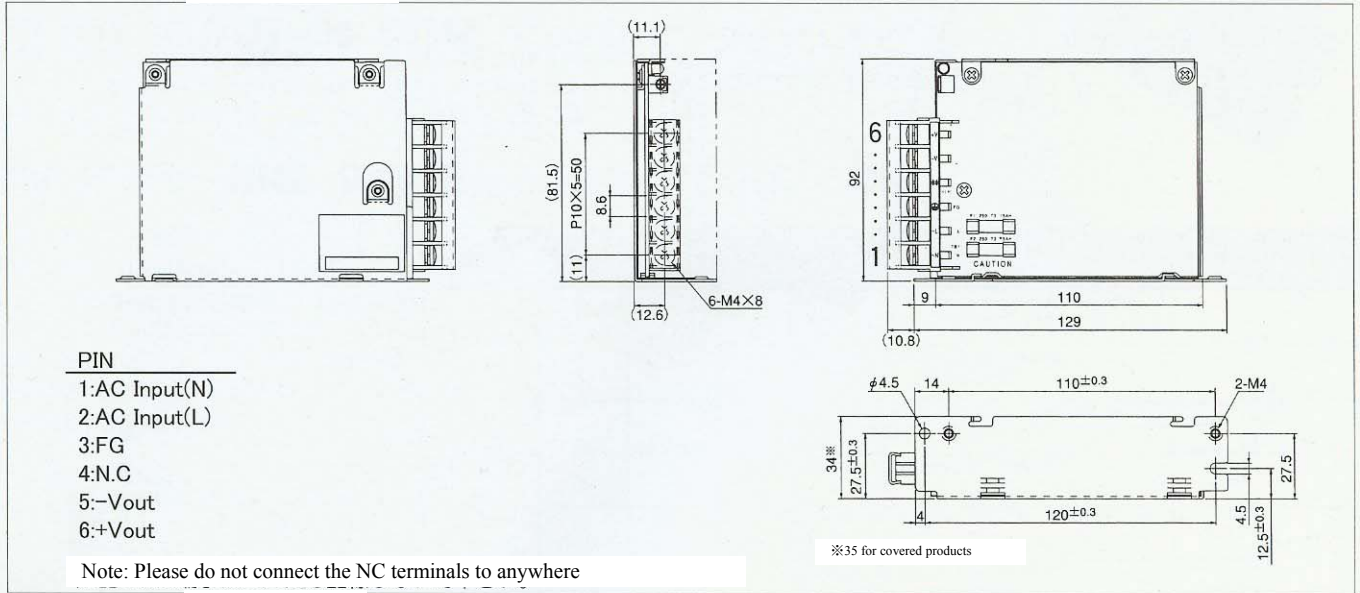
### BLN Series Output Ripple Noise Waveform

Input: AC100V Output: 15V 2.6A +25°C

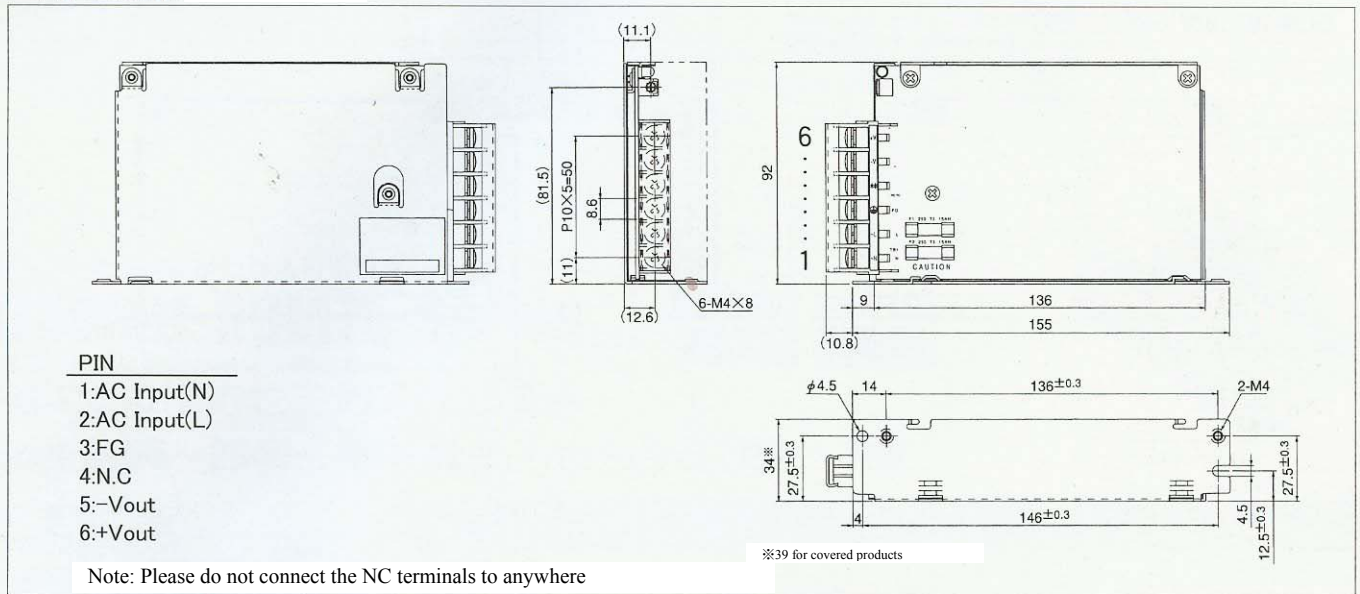


BLN-15S2R6

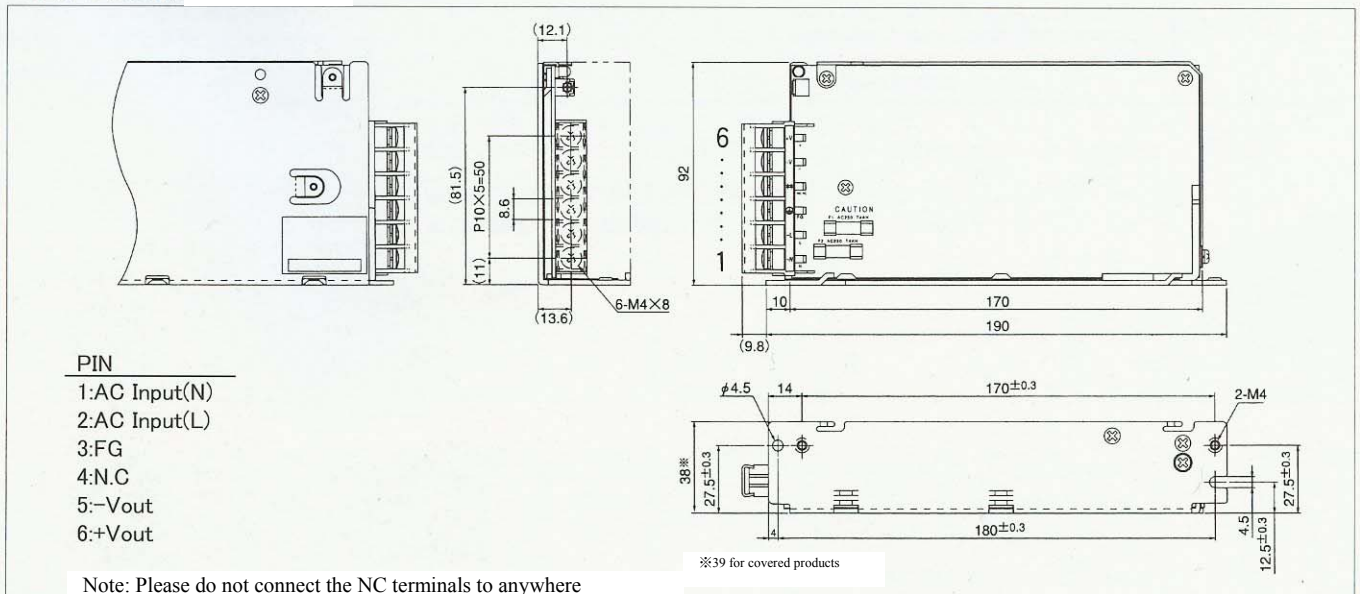
**BLN-S(15W):** Dimensions



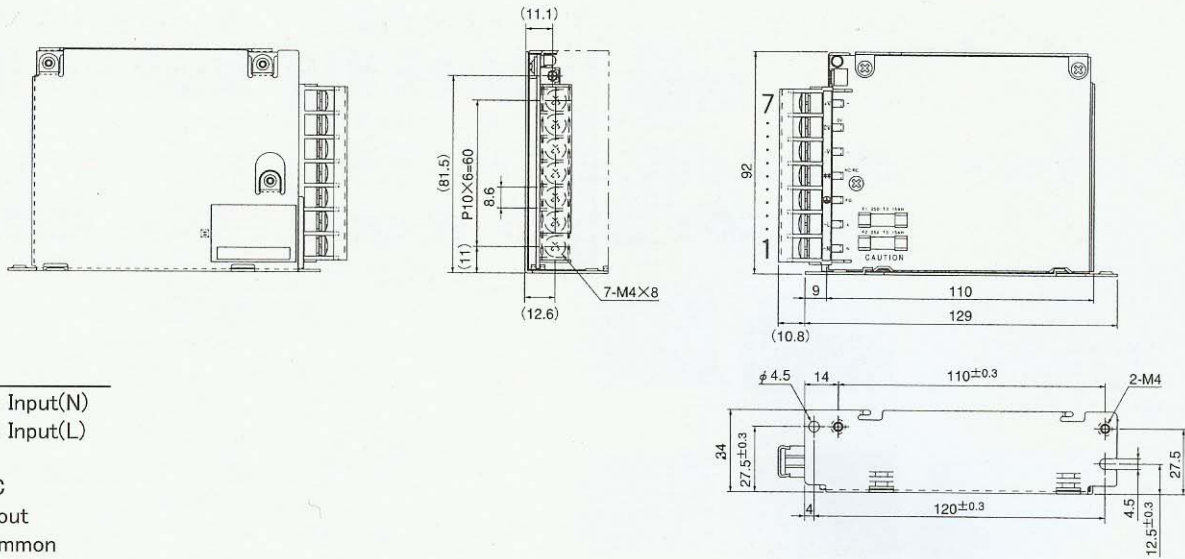
**BLN-S(30W)** Dimensions



**BLN-S(60W)** Dimensions



**BLN-W(15W) Dimensions**

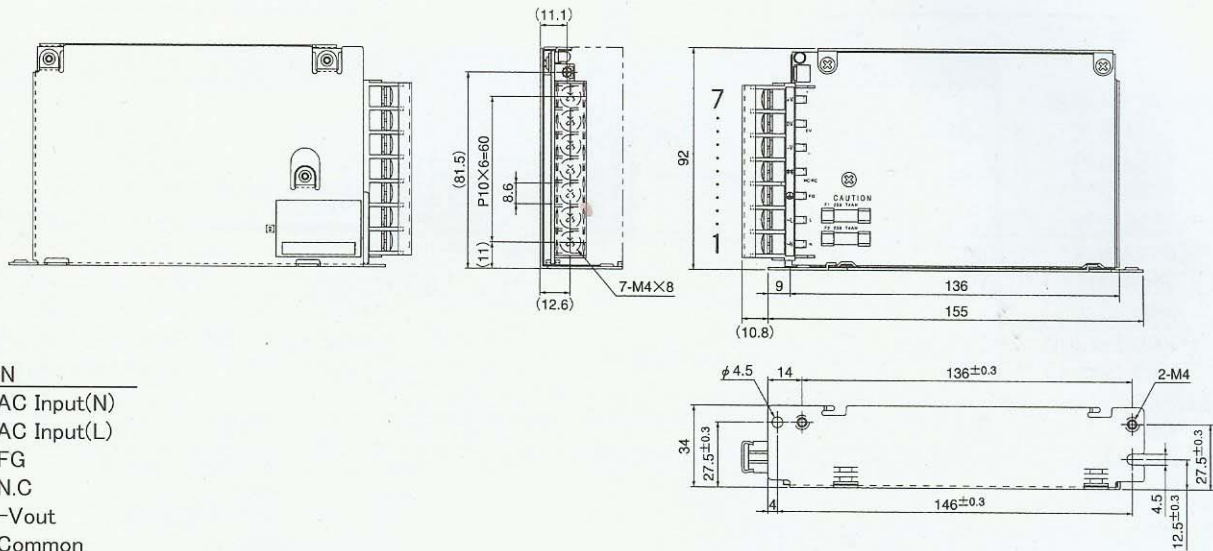


**PIN**

- 1:AC Input(N)
- 2:AC Input(L)
- 3:FG
- 4:N.C
- 5:-Vout
- 6:Common
- 7:+Vout

Note: Please do not connect the NC terminals to anywhere

**BLN-W(30W) Dimensions**



**PIN**

- 1:AC Input(N)
- 2:AC Input(L)
- 3:FG
- 4:N.C
- 5:-Vout
- 6:Common
- 7:+Vout

Note: Please do not connect the NC terminals to anywhere