

Use in Low Noise required for Medical, Measurements, Analysis, Control etc. !

15, 30, 60 Watt BLN Series



EN60601
UL1950
CSA950

Ultra Low Noise (10mVpp), High Isolated-Type (AC4000V) AC-DC Resonant Type Switching Power Supply

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

Ultra Low Noise Power Supply as Series Regulators !

- EN60601-1 Approved (Corresponds to Medical Equipment)
- Low Ripple Voltage (5mVpp), Noise (10mVpp)
- Input Voltage (AC85V-AC264V)
- Corresponds to CE Marking (CE Marking Performed to Low Voltage Directive)
- UL1950,CSA950,EN60950 Approved
- Latest Current Resonant Circuit Method (SMZ Resonant Circuit)
- Isolation Voltage AC4000V, Leakage Current 50µA or less
- Parallel Operation (By 60W Series Optional adjustment)
- Low Conducted Emission (VCCI, FCC, CISPR, there is 20dB margin from Class B regulations)
- Low Radiated Emission (Conforms to VCCI Class B, FCC Class B, CISPR Class B)
- Operating Temp. Range -10°C to +60°C (Derating Required for -10 to 0°C, 50 to 60°C)
- RoHS Compliance

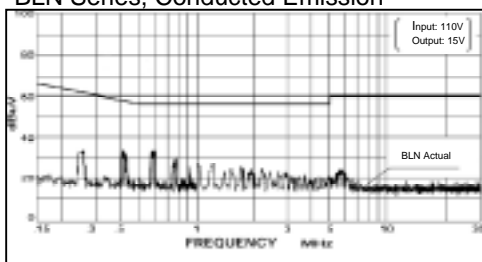


Capacity	Models	Input Voltage	Output Voltage, Current	Outline(WxDxH)	I/O Isolation	Ripple(Noise)	
15W	BLN-05S3R0-M	AC85V to 264V Progressive	5V 3A	34x140x92	AC4000V	10mVpp	
	BLN-15S1R3-M		15V 1.3A				
	BLN-15WR65-M		±15V 0.65A				
30W	BLN-05S6R0-M		5V 6A	34x166x92	AC4000V	10mVpp	
	BLN-12S3R0-M		12V 3A				
	BLN-15S2R6-M		15V 2.6A				
	BLN-15W1R3-M		±15V 1.3A				
60W	BLN-05S10R0-M		AC85V to 132V	5V 10A	38x200x92	AC4000V	10mVpp
	BLN-12S5R2-M		AC170V to 264V Automatic switching	12V 5.2A			
	BLN-15S5R2-M	15V 5.2A					
	BLN-24S3R5-M	24V 3.5A					

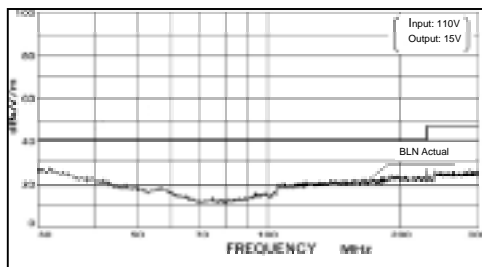
- Ultra Low Noise Power Supply Usage**
- Medical Equipment
 - Measurement Equipment
 - Analysis Equipment
 - Broadcasting Equipment
 - Semiconductor Equipment
 - Audio Equipment
 - Control Equipment

- Note! This catalogue is an outline of the products. When designing, be sure to refer to the data sheets.
 - Cover: For standard products there is no metallic cover. To have a cover attached, place a suffix "C" to the model. Ex) BLN-05S3R0-MC
 - Parallel Operation: To order the products with parallel operation, put suffix "-p" to the model.
Ex) BLN-05S10R0-MC-P (Only 60W series correspond.)
- The max. current of this product is 90% of the rated current. Please refer to the data sheet for the details.

BLN Series, Conducted Emission



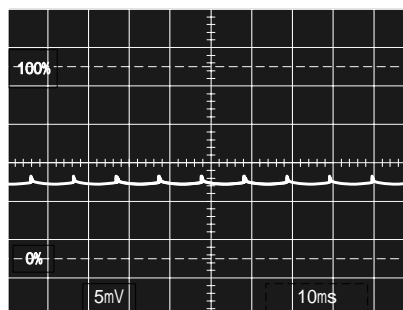
BLN Series, Radiated Emission



UL.CSA.EN Regulation Approved

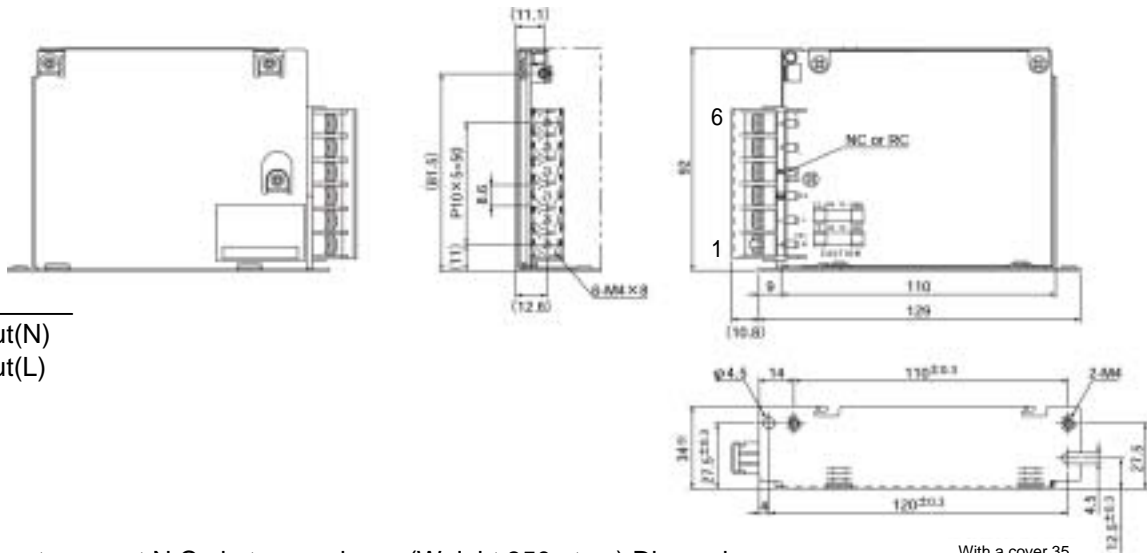
Adopted the latest circuit SMZ type.
With the new resonant circuit, it is noiseless.

BLN Series Output Ripple Noise Wave Form
Input: AC100V Output: 15V2.6A +25°C



BLN-15S2R6

BLN-S(15W) Outline



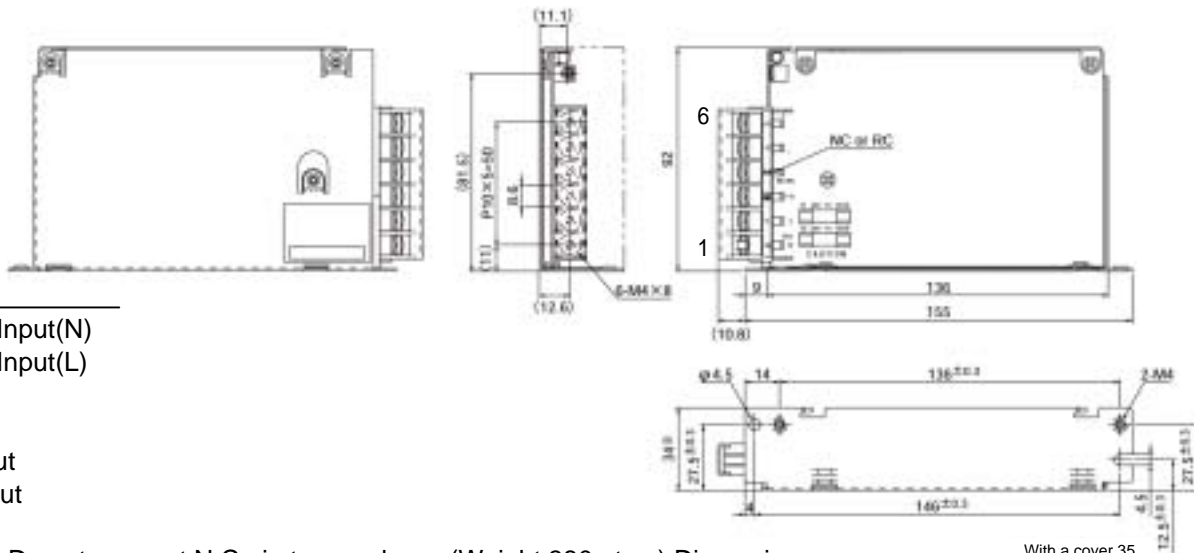
PIN

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

Note : Do not connect N.C pin to anywhere. (Weight 350g typ.) Dimensions : mm

With a cover 35

BLN-S(30W) Outline



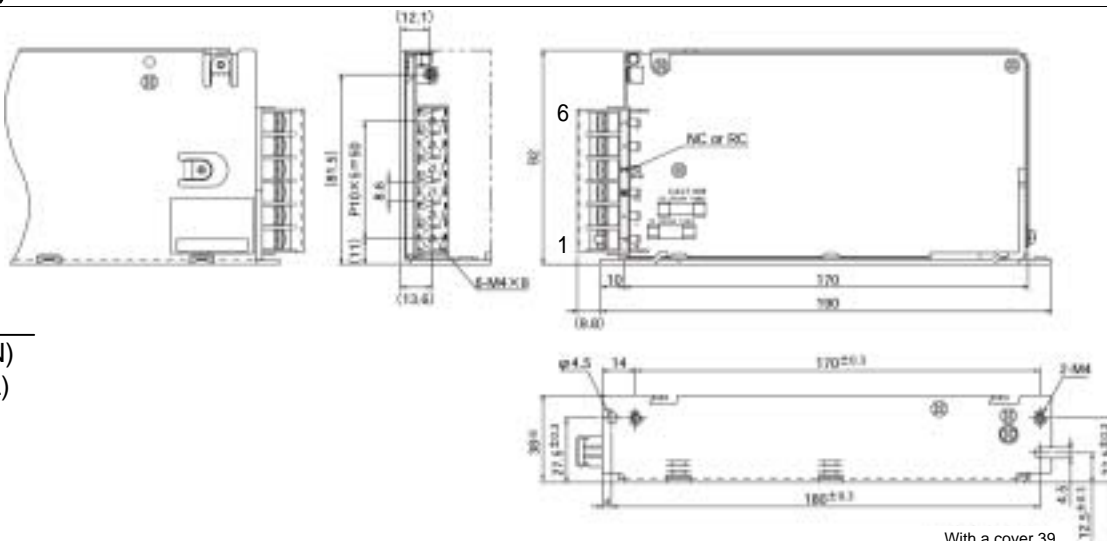
PIN

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

Note : Do not connect N.C pin to anywhere. (Weight 380g typ.) Dimensions : mm

With a cover 35

BLN-S(60W) Outline



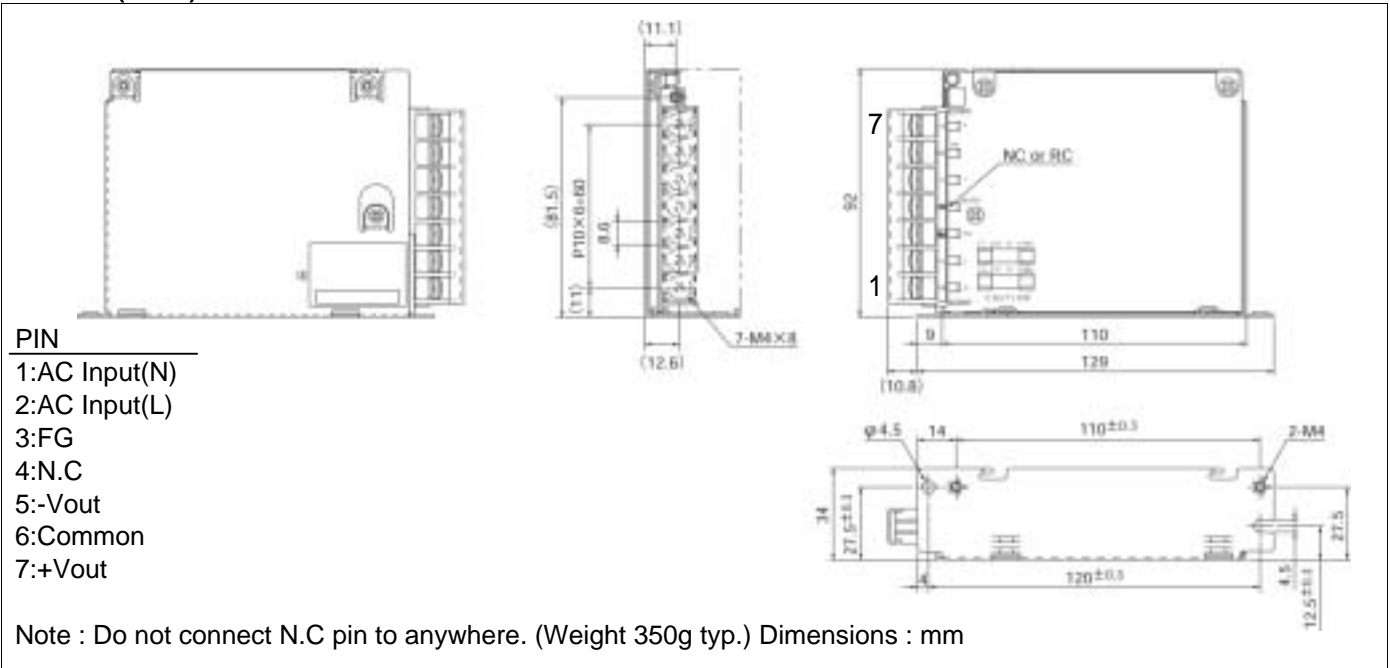
PIN

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

Note : Do not connect N.C pin to anywhere. (Weight 550g typ.) Dimensions : mm

With a cover 39

BLN-W(15W) Outline



BLN-W(30W) Outline

