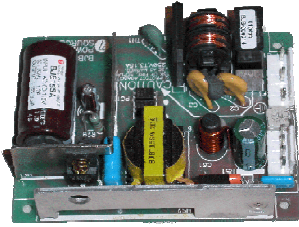




ETA-USA

HIGH QUALITY SWITCHING POWER SUPPLIES

AC/DC SWITCHING POWER SUPPLY
AC INPUT 85~132V
SINGLE CHANNEL OUTPUT
50 WATTS



BJB-SA-U SERIES

DIMENSION: 70Wx93Lx26H

| Application | |
|-------------------------------|------------------------|
| Broad needs | |
| Input | |
| Input Voltage: | AC100-115V |
| Input Voltage Range: | AC85~132V (DC 110-175) |
| Frequency: | 50/60Hz |
| Input Frequency Range: | 47-440Hz |
| Phase: | Single |
| Inrush Current: *1 | 30A(Typ.) at AC100V |

General Description

"BJ"-Series AC/DC Switching power supplies low cost and module-type was developed to meet the broad needs by making the dimensions amazingly small. The dimension of this series are about 40%(BJS 10W) and 33%(BJB 50 W) respectively smaller than those of the current products of our company.

- Features**
1. Ultra small size
 2. Advanced conversion technology, C&K converter adopted (BJB 50W)
 3. High efficiency, ex. BJB05SA 85%
 4. Low cost
 5. Versatile output arrangement(Model 10 type, BJB)
 6. BJS-FWA: Isolated type
 7. EMI designed to FCC part 15-B Class-B, VCCI Class-B
 8. Safety: BJS: UL1950, C-UL(CSA950)
BJB: UL60950, C-UL(CSA60950)

Options:

Wire Harness

| Output Characteristic | Unit | Models | | | | | | | | | |
|-------------------------------|------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | BJB3.3SA-U | BJB05SA-U | BJB06SA-U | BJB09SA-U | BJB12SA-U | BJB15SA-U | BJB24SA-U | BJB30SA-U | BJB36SA-U | BJB48SA-U |
| Output Voltage | Vdc | 3.3 | 5 | 6 | 9 | 12 | 15 | 24 | 30 | 36 | 48 |
| Output Current | A | 10 | 10 | 8.4 | 5.6 | 4.3 | 3.5 | 2.2 | 1.7 | 1.4 | 1.1 |
| Voltage Adjust Range | V | +/- 10% of Rated Output Voltage(at no load within the input range) | | | | | | | | | |
| Ripple Noise(max)*3 | mVpp | 180 | 150 | 160 | 180 | 180 | 180 | 180 | 200 | 300 | 400 |
| Rise up time | mS | 500mS(maximum)AC115V/200mS(maximum)AC230V at 25°C and rated input/output | | | | | | | | | |
| Hold up time | mS | 20mS(minimum) at 25°C and rated input/output | | | | | | | | | |
| Regulation | | | | | | | | | | | |
| a. Line Regulation | mV | 26.4 | 40 | 48 | 72 | 96 | 120 | 192 | 240 | 288 | 384 |
| b. Load Regulation | mV | 29.7 | 45 | 54 | 81 | 108 | 135 | 216 | 270 | 324 | 432 |
| c. Temperature Coefficient *4 | °C | 0.03%/°C | | | | | | | | | |
| d. Drift(maximum) *5 | mV | 31.5 | 40 | 45 | 60 | 75 | 90 | 135 | 165 | 195 | 255 |
| f. Recovery Time | mS | 20 [mS] Typ. | | | | | | | | | |

| Efficiency *2 | % | 82 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 |
|---------------|---|----|----|----|----|----|----|----|----|----|----|
|---------------|---|----|----|----|----|----|----|----|----|----|----|

Conditions:

*1 at cold start

*2 at DC130V input and rated output

*3 measured by a bayonet probe at output connector at a 0 to 100MHz bandwidth

*4 at 0 to +50°C

*5 for 7hour period after 1hour warm-up at 25°C and rated input/output



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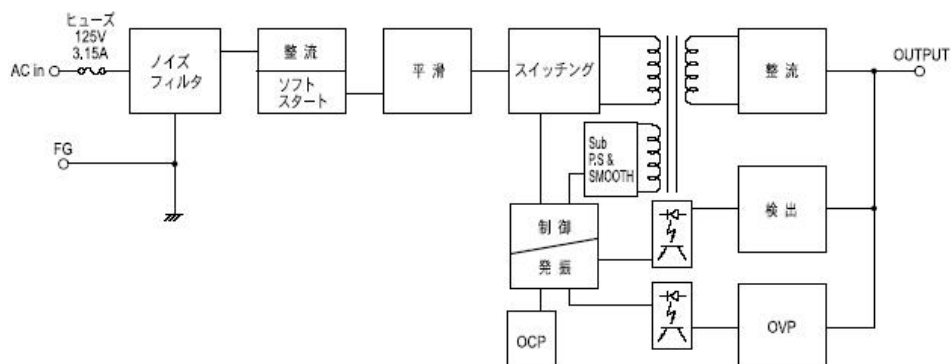


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| Environmental Specification | | | | | | | | | | |
|-----------------------------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Operating Temperature | -10 to +50°C | | | | | | | | | |
| Operating Humidity | 20 to 90%RH(non-condensing) | | | | | | | | | |
| Storage Temperature | -20 to +75°C | | | | | | | | | |
| Storage Humidity | 10 to 90%RH(non-condensing) | | | | | | | | | |
| Withstanding Voltage | Primary-Secondary AC2,000V for 1minute Primary-Frame Ground AC2,000V for 1minute Secondary-Frame Ground AC500V for 1minute | | | | | | | | | |
| Isolation Resistance | Primary-Secondary-Frame Ground 50MΩ(minimum) by DC500V insulation tester | | | | | | | | | |
| Vibration | 5-10Hz:10mm double amplitude,10-55Hz:19.6m/s ² ,20minutes' period for 60minutes each along X,Y,Z axes(non-operating) | | | | | | | | | |
| Shock | 196m/s ² | | | | | | | | | |
| Cooling | Convection | | | | | | | | | |
| Environmental Agencies | | | | | | | | | | |
| Leakage Current | 0.75 mA(max.) | | | | | | | | | |
| Line Conducted Noise | Built to meet FCC Part15-B Class B Built to meet VCCI Class B | | | | | | | | | |
| Safety | UL : UL60950 C-UL : CSA C22.2 No.60950 | | | | | | | | | |
| MTBF [H] | 540000 | 544000 | 544000 | 544000 | 544000 | 608000 | 608000 | 591000 | 604000 | 615000 |
| Switching Frequency[kHz] | 93 | | | | | | | | | |
| Function/Protection | | | | | | | | | | |
| Over current Protection | Hiccup mode/Automatic recovery (≥105% of Rated Output Current[A]) | | | | | | | | | |
| Over voltage Protection | Output shutdown (≥115% of Rated Output Current[A]) | | | | | | | | | |
| Remote Sense | available | | | | | | | | | |
| Mechanical | | | | | | | | | | |
| Dimension [mm] | 70Wx93Lx26H | | | | | | | | | |
| Weight | 130g | | | | | | | | | |

Block Diagram

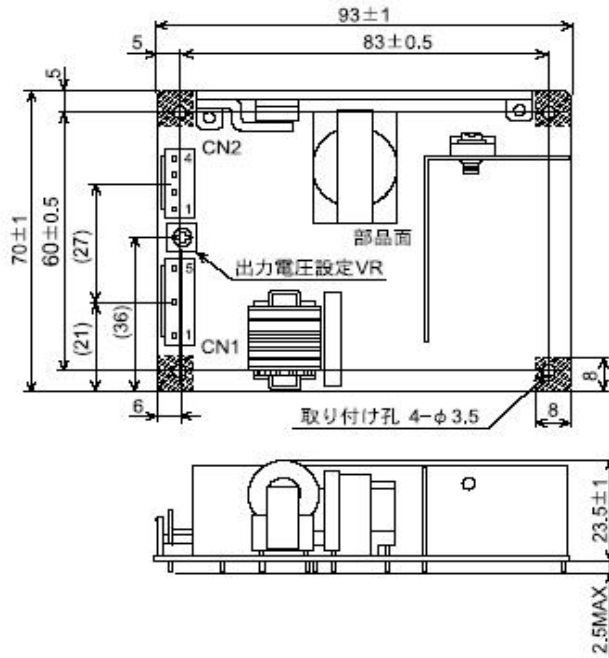




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DIMENSION DIAGRAM (mm)



4カ所の斜線部は取付用金属部の実装可能範囲です。

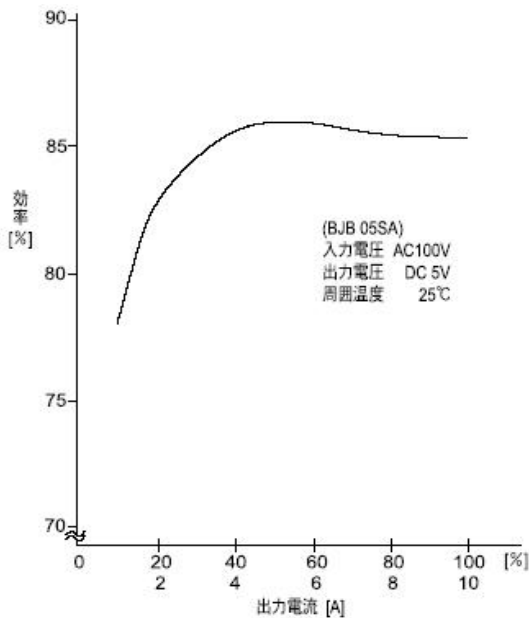
端子接続

- | | |
|------------|----------|
| CN1 | CN2 |
| 1 AC IN(N) | 1 +V OUT |
| 3 AC IN(L) | 2 +V OUT |
| 5 FG | 3 0V OUT |
| | 4 0V OUT |

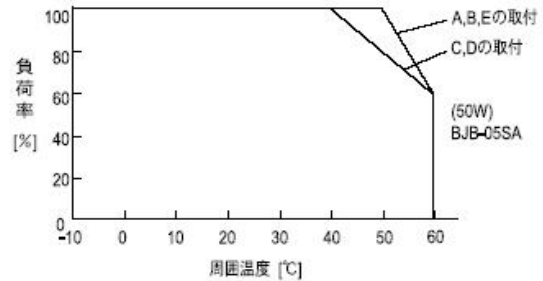
| | 適合ハウジング | コンタクト |
|-----|---------|--------------|
| CN1 | VHR-6N | SVH-21T-P1.1 |
| CN2 | VHR-4N | SVH-21T-P1.1 |

メーカー：日本圧着端子製造株式会社

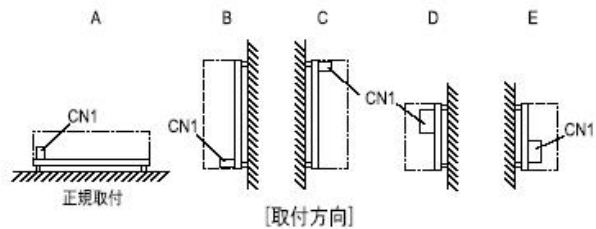
EFFICIENCY CURVE



DERATING CURVE



※安全規格取得条件につきましてはお問い合わせの上ご確認下さい。





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