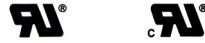
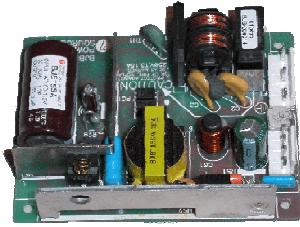




ETA-USA

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 50W) 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
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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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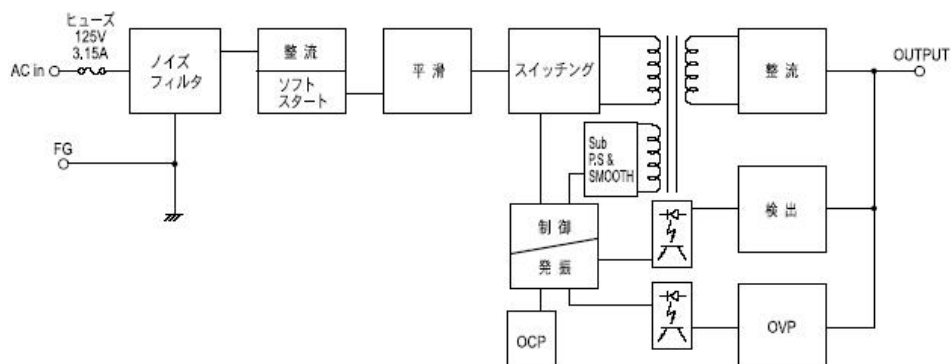


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Environmental Specification										
Operating Temperature	-10 to +50°C									
Operating Humidity	20 to 90%RH(non-condensing)									
Storage Temperature	-20 to +75°C									
Storage Humidity	10 to 90%RH(non-condensing)									
Withstanding Voltage	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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