

BJS-SA SERIES

Model	Output		Efficiency
BJS3.3SA	3.3V	2A	77%
BJS05SA	05V	2A	77%
BJS12SA	12V	.9A	77%
BJS15SA	15V	.7A	77%
BJS24SA	24V	.45A	77%

DESCRIPTION

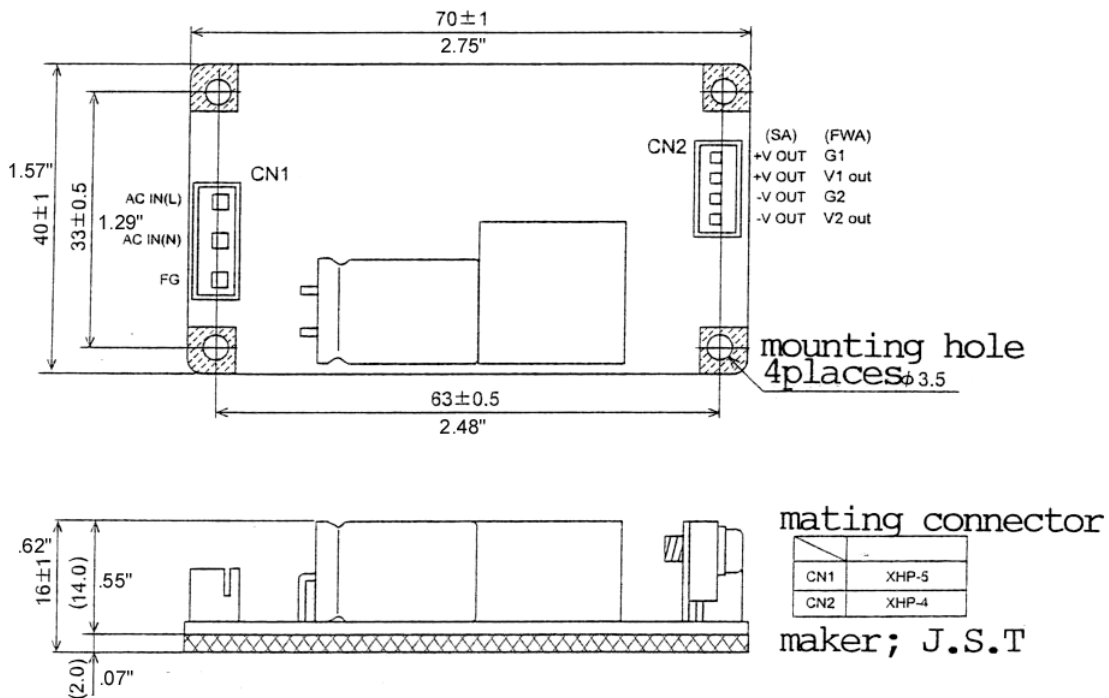
The BJ Series is an open – board switching power supply without chassis and cover. The power supply has standard outputs of 3.3V, 5V, 12V, 15V and 24V. This power supply is 40% smaller than similar products of the same type and wattage.

FEATURES:

- Small Size
- Cost Effective
- EMI: Designed to meet FCC
- Part 15-B Class B
- Safety: Designed to meet UL 1950 and CSA

OPTION:

- AC Wire Harness
- DC Wire Harness



Specifications<AC/DC>	Model				
	BJS**SA-U 10WATTS/SINGLE	BJS3.3SA-U	BJS05SA-U	BJS12SA-U	BJS15SA-U
Input Characteristic					
Input Voltage	AC100-115V				
Input Current	0.3A				
Input Range	AC85-132V				
Input Frequency	50/60Hz				
Input Frequency Range	47-440Hz				
Phase	Single				
Inrush Current *1	20A(maximum) at AC100V				
Efficiency [%] (typical) *2	71	77	80	81	80
Output Characteristic					
Output Voltage [V]	3.3	5	12	15	24
Output Current [A]	2	2	0.9	0.7	0.45
Voltage Adjust Range	not available				
Voltage Tolerance [mVp-p](typical)	0.066	0.1	0.24	0.3	0.48
Ripple and Noise [mVp-p](maximum) *3	100	150	220	250	340
Regulation					
a.Statistic Line Regulation [mV](maximum)	26	40	96	120	192
b.Statistic Load Regulation [mV](maximum)	30	45	108	135	216
c.Temperature Coefficient *4	0.03%/°C				
d.Drift[mV](maximum) *5	32	40	75	90	135
e.Dynamic Load Regulation [mV](typical) *6	+/-150	+/-150	+/-360	+/-450	+/-720
f.Recovery Time *6	20mS(typical)				
Rise up time	200mS(maximum) at 25°C and rated input/output				
Hold up time	20mS(typical) at 25°C and rated input/output				
Functions					
Overcurrent Protection	Current Limiting with automatic recovery				
Overvoltage Protection	zener diode clamping				
Remote Sense	not available				
Remote On/Off	not available				
Power Fail Detection	not available				
Parallel/series Operation	not available				
Environmental					
Operating Temperature	-10 to +71°C (-10 to 50°C at full load condition)				
Operating Humidity	20 to 90%RH(non-condensing)				
Storage Temperature	-20 to +85°C				
Storage Humidity	10 to 85%RH(non-condensing)				
Withstanding Voltage	Primary-Secondary AC1,500V for 1minute				
	Primary-Frame Ground AC1,500V 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				
<input type="checkbox"/> Leakage Current	55uA(typical) at 25°C,50Hz and AC100V input				
<input type="checkbox"/> Line Conducted Noise	Built to meet FCC Part15-B Class B				
<input type="checkbox"/> Safety	Built to meet VCCI Class B				
	UL: UL1950				
	C-UL: CSA C22.2 No.950				
<input type="checkbox"/> Weight (typical)	30g				
<input type="checkbox"/> MTBF [H]	1,200,000				
<input type="checkbox"/> Switching Frequency[kHz](typical)	110kHz at rated input/output(130kHz for BJS3.3SA-U at rated input/output) 90 to 600kHz at input voltage of AC85 to 132V with a load of 0 to 100%				

Conditions:

*1 at cold start

*2 at AC100V input,rated output and 25°C

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

*4 at-10 to +71°C

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

*6 when output current changed from 50% to 150% of rated output current rapidly at rated input