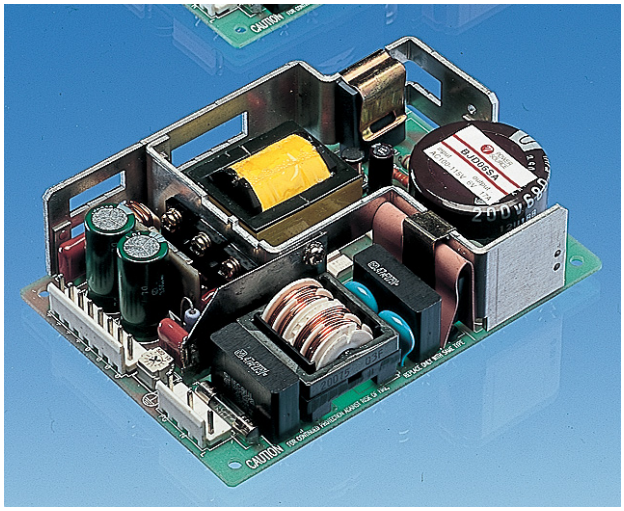
ETA-USA
Your power supply experts

100 WATT AC-DC CONVERTER Single output

BJD-SA Series

General Description

This series of low-cost and module-type switching power supplies was developed to meet the broad needs by making the dimensions amazingly small. These are high efficiency power supplies.



Features

1. Ultra small size, light weight
2. High efficiency, low cost
3. Versatile output arrangement

RoHS

Options

Wire harness set (40cm)

ETA-USA **Tel**: 408-778-2793 **Fax**: 408-779-2753 **e-mail**: sales@eta-usa.com

Specifications<AC/DC>	Model									
BJD**SA 100WATTS/SINGLE	BJD3.3SA-U	BJD05SA-U	BJD06SA-U	BJD09SA-U	BJD12SA-U	BJD15SA-U	BJD24SA-U	BJD30SA-U	BJD36SA-U	BJD48SA-U
Input Characteristic										
Input Voltage	AC100-115V									
Input Range	AC85-132V(DC110-175V)									
Input Frequency	50/60Hz									
Input Frequency Range	47-440Hz									
Phase	Single									
Inrush Current *1	30A(typical) at AC100V									
Efficiency [%] (typical) *2	80	84	84	85	85	85	85	85	85	85
Dimension	86W x 120L x 31H									
Weight	340g									

Application

Industrial

Input

Input Voltage: AC100-115VAC
Input Voltage Range: AC85-132VAC
Input Current: 2.4A
Frequency: 50/60Hz
Input Frequency Range: 47-440 Hz
Phase: Single
Inrush Current*1: 30A (typ.) at AC100V,
Leakage Current: 1mA(maximum)at 25°C (rated input/output and rated input frequency)

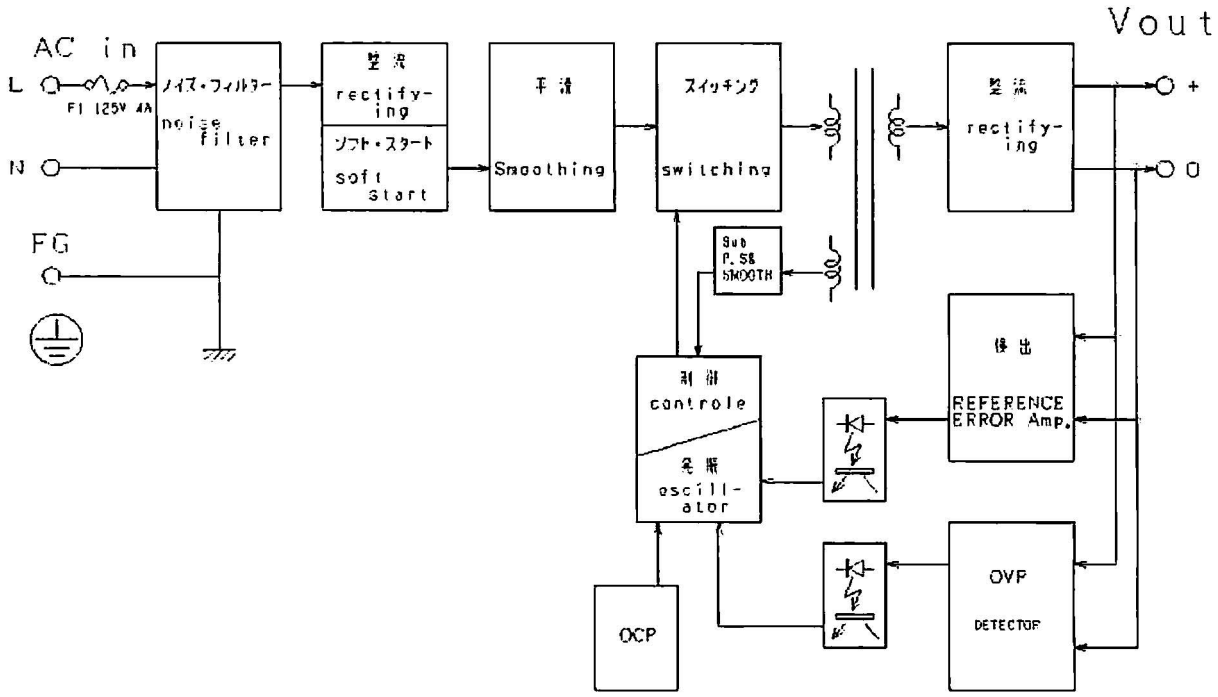
ETA-USA **Tel**: 408-778-2793 **Fax**: 408-779-2753 **e-mail**: sales@eta-usa.com

ETA-USA
Your power supply experts

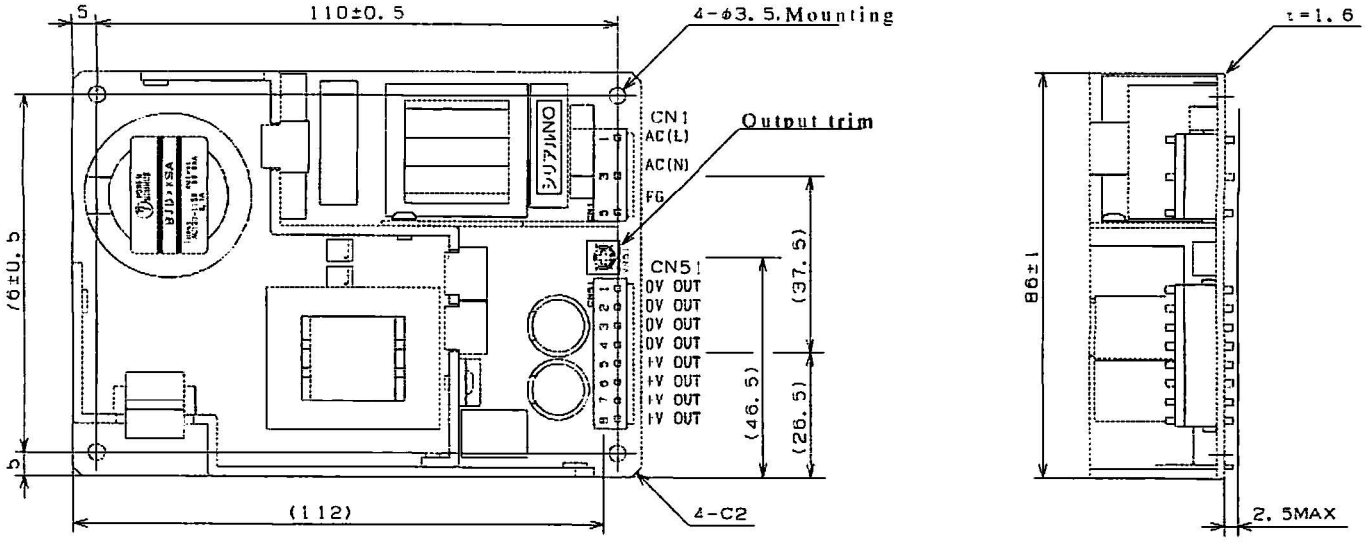
Specifications<AC/DC>	Model									
BJDSA 100WATTS/SINGLE**	BJD3.3SA-U	BJD05SA-U	BJD06SA-U	BJD09SA-U	BJD12SA-U	BJD15SA-U	BJD24SA-U	BJD30SA-U	BJB36SA-U	BJD48SA-U
Output Voltage [V]	3.3	5	6	9	12	15	24	30	36	48
Output Current [A]	20	20	17	11	9.0	7.0	4.5	3.5	2.8	2.2
Voltage Adjust Range	2.7-3.63V	+/- 10% of Rated Output Voltage(at no load within the input range)								
Ripple and Noise [mVp-p](maximum) *3	150	150	160	180	180	180	180	200	300	400
Regulation										
a.Statistic Line Regulation [mV](maximum)	40	40	48	72	96	120	192	240	288	384
b.Statistic Load Regulation [mV](maximum)	40	45	54	81	108	135	216	270	324	432
c.Temperature Coefficient *4	0.03%/C									
d.Drift[mV](maximum) *5	40	35	45	60	75	90	135	165	195	255
Rise up time	700mS(maximum) at 25C and rated input/output									
Hold up time	20mS(typical) at 25C and rated input/output(>AC100V)									
Functions										
Overcurrent Protection *6	hiccup mode/automatic recovery(on and over 105% of Rated Output Current[A])									
Overvoltage Protection ≧115% of Rated Output Voltage[V]	output shutdown(on and over 115% of Rated Output Voltage[V])									
Remote Sense	not available									
Environmental										
Operating Temperature	-10 to 50C									
Operating Humidity	20 to 85%RH(non-condensing)									
Storage Temperature	-20 to +85C									
Storage Humidity	20 to 85%RH(non-condensing)									
Withstanding Voltage	Primary-Secondary AC2,000V for 1minute at 10mA									
	Primary-Frame Ground AC2,000V for 1minute at 10mA									
	Secondary-Frame Ground AC500V for 1minute at 20mA									
Isolation Resistance	Primary-Secondary-Frame Ground 100MOhm(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									
Leakage Current *7	0.75mA(maximum)									
Line Conducted Noise	Built to meet FCC Part15-B Class B									
	Built to meet VCCI Class B									
Weight (typical)	300g(board type switcher)									
MTBF [H]	457,000	457,000	455,000	458,000	458,000	546,000	563,000	555,000	557,000	554,000
Switching Frequency[kHz](typical)	100									

ETA-USA **Tel**: 408-778-2793 **Fax**: 408-779-2753 **e-mail**: sales@eta-usa.com

Block Diagram



Outline Drawings



Derating

OCP Curve

ETA-USA **Tel**: 408-778-2793 **Fax**: 408-779-2753 **e-mail**: sales@eta-usa.com