

50 WATT AC-DC CONVERTER

**BJB-SA Series
SINGLE CHANNEL**

Specifications<AC/DC>	Model									
BJB**SA-U 50WATTS/SINGLE	BJB3.3SA-U	BJB05SA-U	BJB06SA-U	BJB09SA-U	BJB12SA-U	BJB15SA-U	BJB24SA-U	BJB30SA-U	BJB36SA-U	BJB48SA-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	82	85	85	85	85	85	85	85	85	85

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Output Characteristic										
Output Voltage [V]	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	+/- 10% of Rated Output Voltage(at no load within the input range)									
Ripple and Noise [mVp-p](maximum) *3	180	180	180	200	220	250	340	400	460	580
Regulation										
a.Statistic Line Regulation [mV](maximum)	52.8	80	96	144	192	240	384	480	576	768
b.Statistic Load Regulation [mV](maximum)	59.4	90	108	162	216	270	432	540	648	864
c.Temperature Coefficient *4	0.06%/°C									
d.Drift[mV](maximum) *5	31.5	40	45	60	75	90	135	165	195	255
Rise up time	500mS(maximum) at 25C and rated input/output									
Hold up time	20mS(typical) at 25C and rated input/output									
Functions										
Overcurrent Protection ≥ 10% of Rated Output Current[A]	hiccup mode/automatic recovery(= or > 105% of Rated Output Current[A])									
Overvoltage Protection ≥ 15% of Rated Output Voltage[V]	output shutdown(= or >115% of Rated Output Voltage[V])									
Remote Sense	not available									
Environmental										
Operating Temperature	-10 to 50C									
Operating Humidity	20 to 90%RH(non-condensing)									
Storage Temperature	-20 to +75C									
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									
Leakage Current	0.75mA(maximum)									
Line Conducted Noise	Built to meet FCC Part15-B Class B									
	Built to meet VCCI Class B									
Safety	UL: UL1950									
	C-UL: CSA C22.2 No.950									
Weight (typical)	130g(board type switcher)									
MTBF [H]	540.00	540.00	540.00	540.00	540.00	608.00	608.00	591.00	604.00	615.00
Switching Frequency[kHz](typical)	about 93kHz at rated input/output(about 94kHz for BJB36SA-U at rated input/output and about 95kHz for BJB48SA-U at rated input/output)									