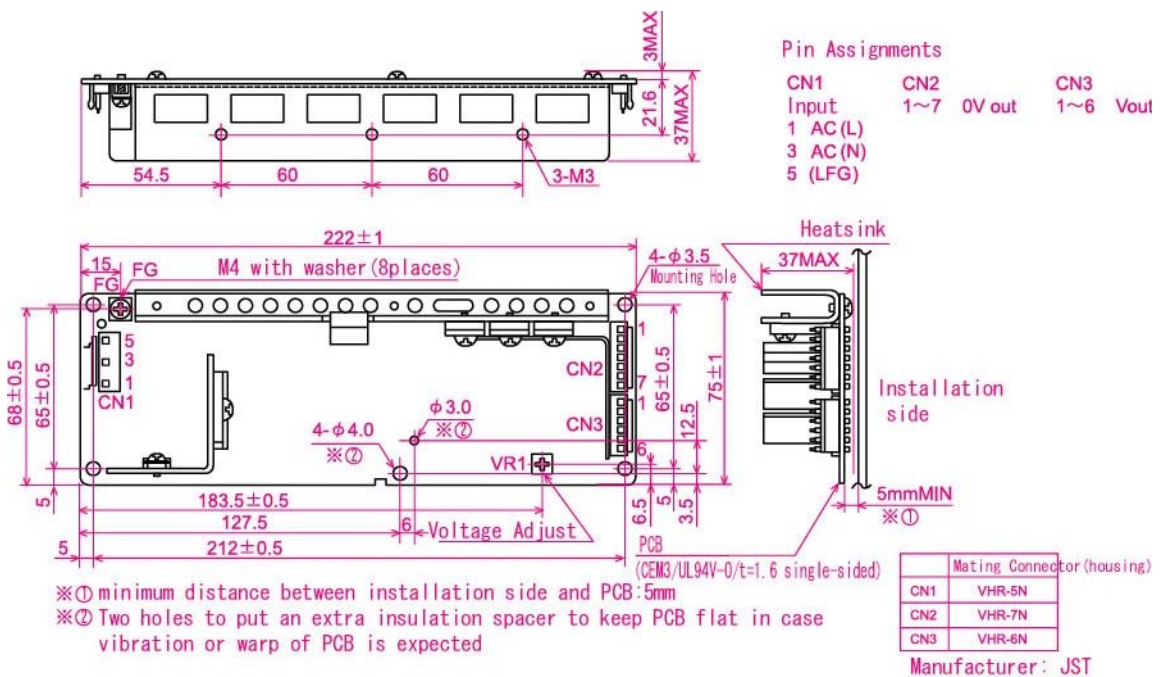


# 150 WATT AC-DC CONVERTER

## BSE-SB Series

Specifications<AC/DC>	Model								
<b>BSE**SB-U</b> <b>150WATTS/SINGLE</b>	BSE3.3SB-U	BSE05SB-U	BSE06SB-U	BSE09SB-U	BSE12SB-U	BSE15SB-U	BSE24SB-U	BSE36SB-U	BSE48SB-U
<b>Input Characteristic</b>									
Input Voltage	AC230V								
Input Current	1.7A								
Input Range	AC170-264V								
Input Frequency	50/60Hz								
Input Frequency Range	47-440Hz								
Phase	Single								
Inrush Current *1	20A(maximum) at AC230V								
Efficiency [%] (typical) *2	76	82	83	85	85	87	88	88	88

### DIMENSION DIAGRAM



Specifications<AC/DC>	Model								
BSE**SB-U 150WATTS/SINGLE	BSE3.3SB-U	BSE05SB-U	BSE06SB-U	BSE09SB-U	BSE12SB-U	BSE15SB-U	BSE24SB-U	BSE36SB-U	BSE48SB-U
<b>Output Characteristic</b>									
Output Voltage [V]	3.3	5	6	9	12	15	24	36	48
Output Current [A]	30	30	25	17	14	11	7	4.6	3.5
Voltage Adjust Range	2.7-3.63 +/-10% of Rated Output Voltage(at no load within the input range)								
Ripple and Noise [mVp-p](maximum) *3	150	150	160	190	220	250	340	460	580
<b>Regulation</b>									
a.Statistic Line Regulation [mV](maximum)	26.4	40	48	72	96	120	192	288	384
b.Statistic Load Regulation [mV](maximum)	29.7	45	54	81	108	135	216	324	432
c.Temperature Coefficient *4	0.03%/°C								
d.Drift[mV](maximum) *5	31.5	40	45	60	75	90	135	195	255
e.Dynamic Load Regulation [mV](typical) *6	99	150	180	270	360	450	720	1080	1440
f.Recovery Time *6	0.5mS(typical)								
Rise up time	500mS(typical) at 25°Cand rated input/output								
Hold up time	20mS (minimum) at 25°Cand rated input/output								
<b>Functions</b>									
Overcurrent Protection @ 03% of Rated Output Current[A]	Current Limiting with automatic recovery								
	30.9	30.9	25.8	17.5	14.4	11.3	7.21	4.74	3.61
Overvoltage Protection @ 14% of Rated Output Voltage[V]	Output shutdown(to reset,leave 1minute after shut-off)								
	3.76	5.70	6.84	10.3	13.7	17.1	27.4	41.0	54.7
Remote Sense	not available								
Remote On/Off	not available								
<b>Environmental</b>									
Operating Temperature	Convection:-10 to +40°CForced air:-10 to +60°C								
Operating Humidity	30 to 85%RH(non-condensing)								
Storage Temperature	-20 to +85°C								
Storage Humidity	10 to 85%RH(non-condensing)								
Withstanding Voltage	Primary-Secondary AC3000V for 1minute								
	Primary-Frame Ground AC2500V 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 <sup>2</sup> ,20minutes' period for 60minutes each along X,Y,Z axes(non-operating)								
Shock	294m/s <sup>2</sup>								
Cooling	Convection								
Leakage Current	1mA(maximum) at 25°Crated input/output and rated input frequency								
Line Conducted Noise	Built to meet FCC Part15-B Class B								
	Built to meet VCCI Class B								
Safety	UL: UL1950								
	CUL:CSA C22.2 No.950								
Weight (typical)	open board type:450g								
MTBF [H]	550,000								
Switching Frequency[kHz](typical)	130								

Conditions:

\*1at cold start

\*2 at DC260V input/rated output

\*3 measured by a bayonet probe at the end of a pair of 5cm long wires terminated with a 100uF electrolytic capacitor and 0.1uF film capacitor in parallel at a 0 to 100MHz bandwidth

\*4 Convection:at -10 to +40°CForced air:at -10 to +60°C

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

\*6 when output current changed from 25% of rated output current to 75% rapidly at AC200V input



**ETA-USA**

HIGH QUALITY SWITCHING POWER SUPPLIES

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