

100 WATT AC-DC CONVERTER

BSD-SA-U SERIES

Specifications <ac dc=""></ac>	Model										
BSD**SA-U 100WATTS/SINGLE	BSD3.3SA-U	BSD05SA-U	BSD06SA-U	BSD09SA-U	BSD12SA-U	BSD15SA-U	BSD24SA-U	BSD36SA-U	BSD48SA-U		
Input Characteristic											
Input Voltage	AC115V										
Input Current	2.2A										
Input Range	AC85-132V										
Input Frequency	50/60Hz										
Input Frequency Range	47-440Hz										
Phase	Single										
Inrush Current *1	17A(maximum) at AC115V										
Efficiency [%] (typical) *2	73	76	78	82	82	84	87	87	88		



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100WATTS/SINGLE	0000.00710	Bebeerre	Bebeecke	868666,10	000120/10	202100/10	BOBEION	Bebeee, (e	202 100/1	
Dutput Voltage [V]	3.3	5	6	9	12	15	24	36	48	
Dutput Current [A]	20	20	17	11	9	7	5	3.3	2.5	
/oltage Adjust Range	2.7-3.63 +/-10% of Rated Output Voltage(at no load within the input range)							inge)		
Ripple and Noise [mVp-p](maximum) *3	150	150	160	190	220	250	340	460	580	
Regulation										
a.Statistic Line Regulation [mV](maximum)	40	40	48	72	96	120	192	288	384	
Statistic Load Regulation [mV](maximum)	45	45	54	81	108	135	216	324	432	
c.Temperature Coefficient *4	0.025%/C 0.03%/C									
J.Drift[mV](maximum) *5	40	40	45	60	75	90	135	195	255	
e.Dynamic Load Regulation [mV](typical) *6	150	150	180	270	360	450	720	1080	1440	
Recovery Time *6	0.5mS(typical)									
Rise up time	500mS(typical) at 25C and rated input/output									
Hold up time	15mS (minimum) at 25C and rated input/output									
Functions										
Overcurrent Protection = or				Current Lim	iting with autor	matic recovery				
103% of Rated Output Current[A]	20.6	20.6	17.5	11.3	9.3	7.2	5.2	3.4	2.6	
Overvoltage Protection = or >114% of Rated Output Voltage[V]	Output shutdown(to reset,leave 1minute after shut-off)									
	3.76	5.7	6.84	10.3	13.7	17.1	27.4	41.0	54.7	
Remote Sense	not available								-	
Remote On/Off					not available					
Environmental										
Operating Temperature	Convection:-10 to +50C/Forced air:-10 to +60C									
Operating Humidity	20 to 85%RH(non-condensing)									
Storage Temperature	-20 to +85C									
Storage Humidity										
Withstanding Voltage	Primary-Secondary AC1500V for 1minute									
	Primary-Frame Ground AC1500V for 1minute									
	Secondary-Frame Ground AC500V for 1minute									
solation Resistance	Primary-Secondary-Frame Ground 50MOhm(minimum) by DC500V insulation tester									
/ibration	5-10Hz:10mm double amplitude,10-55Hz:19.6m/s ² ,20minutes' period for 60minutes each along X,Y,Z axes(non-operating)							-operating)		
Shock					294m/s ²					
Cooling	Convection									
eakage Current			0.3mA(typ	ical) at 25C,rat	ed input/outpu	t and rated inp	ut frequency			
ine Conducted Noise				Built to	meet FCC Pa	art15-B Class E	3			
	Built to meet VCCI Class B									
Safety	UL: UL1950 CUL:CSA C22.2 No.950									
Veight (typical)	open board type:330g									
ATBF [H]										
Switching Frequency[kHz](typical)	130	130	130	130	130	130	130	130	140	

Conditions:

*1at cold start

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*2 at DC130V 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 +50°/2 forced air at-10 to +60 $^\circ\mathrm{C}$

*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 AC100V input



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