

Industrial Power Supply DIN-Rail



Features : BC-75-48
 Universal AC input/Full range
 Protections: Short circuit/Over load/Over voltage/Over temperature
 Cooling by free air convection
 Can be installed on DIN rail TS-35/7.5 or 15
 UL 508(industrial control equipment)approved
 LED indicator for power on
 100% full load burn-in test
 Fix switching frequency at 50KHz



Features : BC-120-48
 AC input range selectable by switch
 Protections: Short circuit/Over load/Over voltage/Over temperature
 Cooling by free air convection
 Can be installed on DIN rail TS-35/7.5 or 15
 UL 508(industrial control equipment)approved
 LED indicator for power on
 100% full load burn-in test
 Fixed switching frequency at 55KHz

	MODEL	BC-75-48	BC-120-48
OUTPUT	DC VOLTAGE	48V	48V
	RATED CURRENT	1.6A	2.5A
	CURRENT RANGE	0 ~ 1.6A	0 ~ 2.5A
	RATED POWER	76.8W	120W
	RIPPLE & NO ISE (max.) Note.2	240mVp-p	100mVp-p
	VOLTAGE ADJ. RANGE	48 ~ 53V	48 ~ 53V
	VOLTAGE TOLERANCE Note.3	± 1.0%	± 1.0%
	LINE REGULATION	± 0.5%	± 0.5%
	LOAD REGULATION	± 1.0%	± 1.0%
	SETUP, RISE TIME	1000ms, 60ms/230VAC 1800ms, 60ms/115VAC at full load	500ms, 70ms/230VAC 500ms, 70ms/115VAC at full load
HOLD TIME(Typ.)	60ms/230VAC ,12ms/115VAC at full load	36ms/230VAC 32ms/115VAC at full load	
INPUT	VOLTAGE RANGE	85 ~ 264VAC ,120 ~ 370VDC	88 ~ 132VAC/176 ~ 264VAC by switch 248 ~ 370VDC
	FREQUENCY RANGE	47 ~ 63Hz	47 ~ 63Hz
	EFFICIENCY (Typ.)	81%	85%
	AC CURRENT	1.6A/115VAC 0.96A/230VAC	2.6A/115VAC 1.6A/230VAC
	INRUSH CURRENT(max.)	COLD START 20A/115VAC 40A/230VAC	COLD START 20A/115VAC 40A/230VAC
LEAKAGE CURRENT	<1mA/240VAC	<3.5mA/240VAC	
PROTECTION	OVERLOAD	-105 ~ 150% rated output power Protection type : Constant current limiting,recovers automatically after fault condition is removed	-105 ~ 150% rated output power Protection type : Constant current limiting,recovers automatically after fault condition is removed
	OVER VOLTAGE	58 ~ 65V Protection type : Hiccup mode, recovers automatically after fault condition is removed	58 ~ 65V Protection type : Shut down o/p voltage, re-power on to recover
	OVER TEMPERATURE	85°C±5°C (TSW1) Detect on heat sink of power transistor Protection type : Shut down o/p voltage, recovers automatically after temperature goes down	90°C±5°C (TSW1)Protection type : Shut down o/p voltage, recovers automatically after temperature goes down
ENVIRONMENT	WORKING TEMP.	-10 ~ +60°C (Refer to output load derating curve)	-10 ~ +60°C (Refer to output load derating curve)
	WORKING HUMIDITY	20 ~ 90% RH non-condensing	20 ~ 90% RH non-condensing
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C , 10 ~ 95% RH	-20 ~ +85°C , 10 ~ 95% RH
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)	±0.03%/°C (0 ~ 50°C)
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes
SAFETY & EMC (Note 4)	SAFETY STANDARDS	Design refer to UL508,TUV EN60950-1	Design refer to UL508, UL60950-1, TUV EN60950-1
	WITHSTAND VOLTAGE	I/P -O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC	I/P -O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC
	ISOLATION RESISTANCE	I/P -O/P, I /P-FG, O/P-FG:100M Ohms/500VDC	I/P -O/P, I /P-FG, O/P-FG:100M Ohms/500VDC
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR R22) Class B	Compliance to EN55011,EN55022 (CI SPR22) Class B
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3	Compliance to EN61000-3-2,-3
EMS IMMUNITY	Compliance to EN61000-4-2,3, 4,5,6,8,11, ENV50204, EN55024, EN61000-6-2 (EN50082-2) Heavy industry level, criteria A	Compliance to EN61000-4-2,3, 4,5,6,8,11, ENV50204, EN55024, EN61000-6-2 (EN50082-2) Heavy industry level, criteria A	
OTHERS	MTBF	123.1K hrs min. MIL-HDBK-217F (25°C)	136.8K hrs min. MIL-HDBK-217F (25°C)
	DIMENSION	55.5*125.2*100mm (L*W*H)	65.5*125.2*100mm (L*W*H)
	PACKING	0.6Kg; 20pcs/13Kg/1.1CUFT	0.79Kg; 20pcs/16.5Kg/1.1CUFT