24Vdc 120-Watt Power Supply

CCI Part # 0091011-0120-1



■ Features :

- High efficiency 91% and low power dissipation
- 150% peak load capability
- Built-in active PFC function, PF>0.93
- Protections: Short circuit / Overload / 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
- EN61000-6-2(EN50082-2) industrial immunity level
- Built-in DC OK relay contact
- 100% full load burn-in test
- 3 years warranty



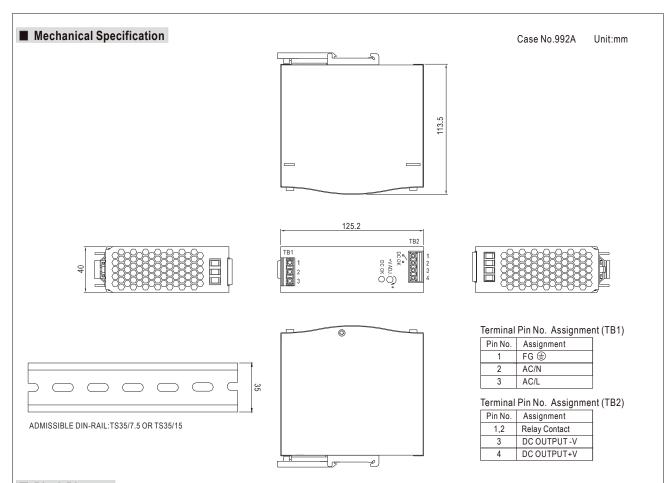




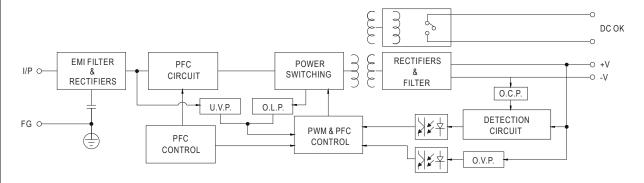


SPECIFICATION

MODEL		0091011-0120-1	
ОИТРИТ	DC VOLTAGE	24V	
	RATED CURRENT	5A	
	CURRENT RANGE	0~5A	
	RATED POWER	120W	
	PEAK CURRENT	7.5A	
	PEAK POWER Note.6		
	RIPPLE & NOISE (max.) Note.2	100mVp-p	
	VOLTAGE ADJ. RANGE	24 ~ 28V	
	VOLTAGE TOLERANCE Note.3	±1.0%	
	LINE REGULATION	±0.5%	
	LOAD REGULATION	±1.0%	
	SETUP, RISE TIME	1500ms, 60ms/230VAC 3000ms, 60ms/115VAC at full load	
	HOLD UP TIME (Typ.)	20ms/230VAC 20ms/115VAC at full load	
INPUT	VOLTAGE RANGE Note.7	88 ~ 264VAC 124 ~ 370VDC	
	FREQUENCY RANGE	47 ~ 63Hz	
	POWER FACTOR (Typ.)	0.93/230VAC	
	EFFICIENCY (Typ.)	91%	
	AC CURRENT (Typ.)	1.4A/115VAC 0.7A/230VAC	
	INRUSH CURRENT (Typ.)	35A/115VAC 70A/230VAC	
	LEAKAGE CURRENT	<1mA/240VAC	
	OVERLOAD	Normally works within 110 ~ 150% rated output power for more than 3 seconds and then shut down o/p voltage	
		>150% rated power, constant current limiting with auto-recovery within 3 seconds and shut down o/p voltage after 3 seconds	
	OVER VOLTAGE	29 ~ 33V	
PROTECTION		Protection type: Shut down o/p voltage, re-power on to recover	
	OVER TEMPERATURE	95°C ±5°C (TSW) detect on heatsink of power switch	
		Protection type: Shut down o/p voltage, recovers automatically after temperature goes down	
FUNCTION	DC OK REALY CONTACT RATINGS (max.)	7 1 0	
FONCTION	WORKING TEMP.	-25 ~ +70°C (Refer to "Derating Curve")	
	WORKING HUMIDITY	20 ~ 95% RH non-condensing	
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C , 10 ~ 95% RH	
	TEMP. COEFFICIENT	±0.03%°C (0~50°C)	
	VIBRATION	Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6	
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL508, TUV EN60950-1 approved	
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC O/P-DC OK:0.5KVAC	
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C / 70% RH	
	EMC EMISSION	Compliance to EN55011, EN55022 (CISPR22), EN61204-3 Class B, EN61000-3-2,-3	
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2 (EN50082-2), EN61204-3, heavy industry level, criteria A, SEMI F47, GL approved	
OTHERS	MTBF	289.9K hrs min. MIL-HDBK-217F (25°C)	
	DIMENSION	40*125.2*113.5mm (W*H*D)	
	PACKING	0.67Kg; 20pcs/14.4Kg/1.16CUFT	
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance: includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. 5. Installation clearances: 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power. In case the adjacent device is a heat source, 15mm clearance is recommended. 6. 3 seconds max, please refer to peak loading curves. 7. Derating may be needed under low input voltage. Please check the derating curve for more details.		



■ Block Diagram



■ DC OK Relay Contact

Contact Close	PSU turns on / DC OK.
Contact Open	PSU turns off / DC Fail.
Contact Ratings (max.)	30V/1A resistive load.

■ Peak Loading (2) (1) 180W ----180W 120W 100 sec. 3 sec. 15 sec. 3 sec. ■ Derating Curve ■ Output derating VS input voltage Others 100 For 3 sec. (typ.) 125 12V 80 Others 100 70 LOAD (%) (%) **GOD** (%) 50 Continuous 12V 40 70 (VERTICAL) 50 55 60 10 20 30 100 110 135 230 264 AMBIENT TEMPERATURE ($^{\circ}$ C) INPUT VOLTAGE (V) 60Hz