

## 120W Single Output Industrial DIN RAIL Power Supply WDR-120 series



Features :

- \* Single and two phase wide input range 180  $\sim 550 \text{VAC}$
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Built-in constant current limiting circuit
- Can be installed on DIN rail TS-35/7.5 or 15
- UL508(industrial control equipment)approved
- EN61000-6-2(EN50082-2) industrial immunity level
- 100% full load burn-in test
- Built-in DC OK relay contact

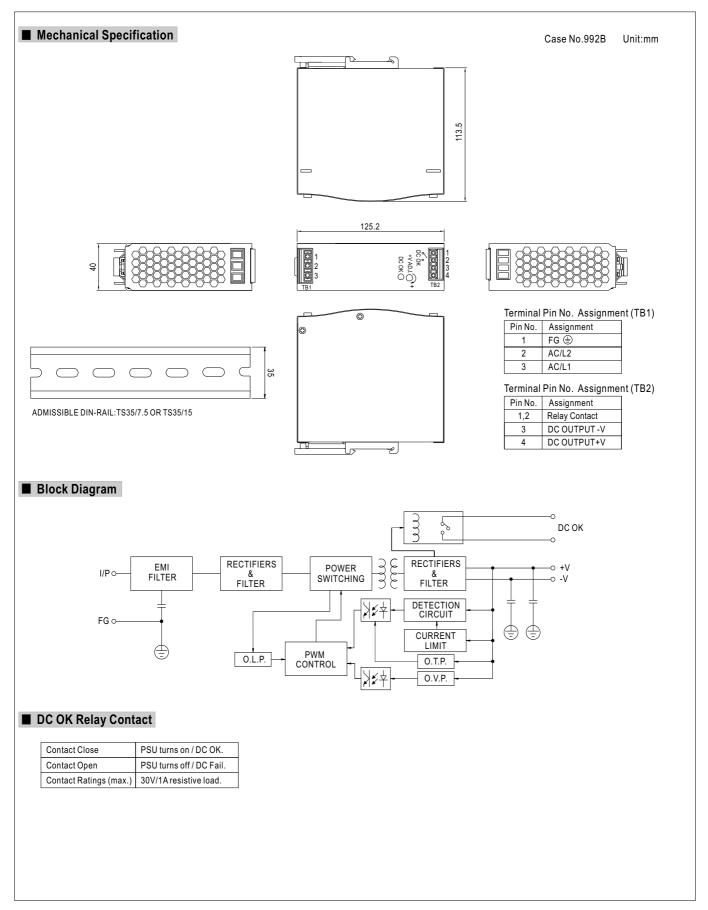


## SPECIFICATION

MODEL		WDR-120-12	WDR-120-24	WDR-120-48	
OUTPUT	DC VOLTAGE	12V	24V	48V	
	RATED CURRENT	10A	5A	2.5A	
	CURRENT RANGE	0~10A	0 ~ 5A	0~2.5A	
	RATED POWER	120W	120W	120W	
	RIPPLE & NOISE (max.) Note.2		120mVp-p	150mVp-p	
	VOLTAGE ADJ. RANGE	12 ~ 15V	24 ~ 29V	48 ~ 58V	
	VOLTAGE TOLERANCE Note.3		±1.0%	±1.0%	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION	±0.5%	±0.5%	±0.5%	
	SETUP, RISE, HOLD UP TIME		ns, 70ms, 10ms/230VAC at full load		
	VOLTAGE RANGE	180 ~ 550VAC 254 ~ 780VDC			
INPUT	FREQUENCY RANGE	47 ~ 63Hz			
	EFFICIENCY (Typ.)	89.5% / 400V	91% / 400V	92% / 400V	
	AC CURRENT	0.55A/400VAC 1.2A/230VAC	01/0/ 4000	02/07 400 0	
	INRUSH CURRENT (max.)	COLD START 50A			
	LEAKAGE CURRENT	<3.5mA / 530VAC			
PROTECTION	OVERLOAD	105 ~ 130% rated output power			
		Protection type : Constant current limiting, recovers automatically after fault condition is removed			
	OVER VOLTAGE	$16 \sim 18V$	31 ~ 37V	60 ~ 67V	
		Protection type : Shut down o/p voltage, re			
	OVER TEMPERATURE	$105^{\circ}C\pm5^{\circ}C(12V)$ , $110^{\circ}C\pm5^{\circ}C(24V)$ (TSW1) detect on heatsink of power transistor ; $100^{\circ}C\pm5^{\circ}C(48V)$ (TSW1) detect on heatsink of power diode			
		Protection type : Shut down o/p voltage, recovers automatically after temperature goes down			
FUNCTION	DC OK SIGNAL	Relay contact rating(max.) : 30V / 1A resistive			
1 on of the the	WORKING TEMP.	-25 ~ +70°C (Refer to output load derating curve)			
ENVIRONMENT		20 ~ 90% RH non-condensing			
	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 clip: Compliance to IEC60068-2-6			
	SAFETY STANDARDS	UL508 approved, IEC60950-1 CB approved by SIQ, design refer to GL			
SAFETY &					
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH			
(Note 4)	EMI CONDUCTION & RADIATION	Compliance to EN55011 (CISPR11), EN55022 (CISPR22), EN61204-3 Class B			
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, ENV50204, EN61204-3, EN61000-6-2 (EN50082-2), heavy industry level, criteria A			
OTHERS	MTBF	268Khrs min. MIL-HDBK-217F (25°C)			
	DIMENSION	40*125.2*113.5mm (W*H*D)			
	PACKING	0.65Kg; 20pcs/14Kg/1.16CUFT			
NOTE	All parameters NOT special All parameters NOT special Alipple & noise are measure Tolerance : includes set up A. The power supply is consid EMC directives.	parameters NOT specially mentioned are measured at 400VAC input, rated load and 25°C of ambient temperature. ple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. lerance : includes set up tolerance, line regulation and load regulation. e 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			



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File Name:WDR-120-SPEC 2010-12-07



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