



■ Features :

- $^{\bullet}\,$ Single and two phase wide input range 180 $^{\sim}$ 550VAC
- 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
- * BS EN/EN61000-6-2(BS EN/EN50082-2) industrial immunity level
- 100% full load burn-in test
- Built-in DC OK relay contact
- 3 years warranty

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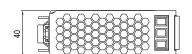
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S/NZS62368-1	TPTC004	UL508	IEC62368-1

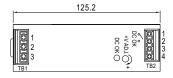
MODEL		WDR-120-12	WDR-120-24	WDR-120-48	
	DC VOLTAGE	12V	24V	48V	
	RATED CURRENT	10A	5A	2.5A	
	CURRENT RANGE	0 ~ 10A	0 ~ 5A	0 ~2.5A	
	RATED POWER	120W	120W	120W	
	RIPPLE & NOISE (max.) Note.2	120mVp-p	120mVp-p	150mVp-p	
DUTPUT	VOLTAGE ADJ. RANGE	12 ~ 15V	24 ~ 29V	48 ~ 58V	
	VOLTAGE TOLERANCE Note.3	±1.5%	±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	2000ms, 70ms, 50ms/400VAC 2000	ms, 70ms, 10ms/230VAC at full load		
	VOLTAGE RANGE	180 ~ 550VAC 254 ~ 780VDC			
	FREQUENCY RANGE	47 ~ 63Hz			
	EFFICIENCY (Typ.)	89.5% / 400V	91% / 400V	92% / 400V	
NPUT	AC CURRENT	0.7A/400VAC 1.2A/230VAC		<u> </u>	
	INRUSH CURRENT (max.)	COLD START 50A			
	LEAKAGE CURRENT	<3.5mA / 530VAC			
		105 ~ 130% rated output power			
	OVERLOAD	Protection type: Constant current limiting, recovers automatically after fault condition is removed			
ROTECTION		16 ~ 18V	31 ~ 37V	60 ~ 67V	
	OVER VOLTAGE	Protection type : Shut down o/p voltage, re-power on to recover			
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down			
FUNCTION	DC OK SIGNAL	Relay contact rating(max.): 30V / 1A resistive			
	WORKING TEMP.	-25 ~ +70°C (Refer to "Derating Curve")			
	WORKING HUMIDITY	20 ~ 90% 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 clip: Compliance to IEC60068-2-6			
	SAFETY STANDARDS	UL508, AS/NZS 62368.1, EAC TP TC 004 approved, IEC62368-1 CB approved by SIQ;(meet BS EN/EN60204-1)			
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-	FG:0.5KVAC O/P-DC OK:0.5KVAC		
EMC ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH					
(Note 4)	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32), BS EN/EN61204-3 Class B, EAC TP TC 020			
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61204-3, BS EN/EN61000-6-2 (BS EN/EN50082-2), heavy industry level, criteria A, EAC TP TC 020			
	MTBF	268K hrs min. MIL-HDBK-217F (25°C)			
OTHERS	DIMENSION	40*125.2*113.5mm (W*H*D)			
	PACKING	0.65Kg; 20pcs/14Kg/1.16CUFT			
NOTE	1. All parameters NOT specially mentioned are measured at 400VAC 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. Length of set up time is measured at cold first start. Turning ON/OFF the power supply very quick may lead to increase of the set up time.				
	6. The ambient temperature d		els and of $5^{\circ}\text{C}/1000\text{m}$ with fan mod	dels for operating altitude higher than 2000m(65	

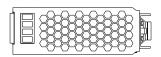
WDR-120 series

Unit:mm

■ Mechanical Specification Case No.992B

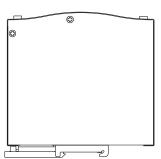








ADMISSIBLE DIN-RAIL:TS35/7.5 OR TS35/15



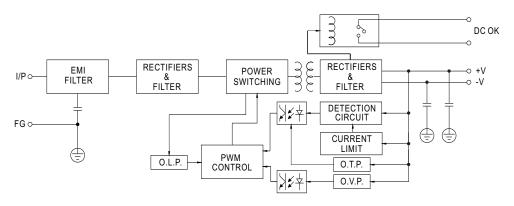
Ierminal	Pin No. Assignment (TB1)	
Pin No	Assignment	

Pin No.	Assignment	
1	FG 🖶	
2	AC/L2	
3	AC/L1	

Terminal Pin No. Assignment (TB2)

Pin No.	Assignment
1,2	Relay Contact
3	DC OUTPUT -V
4	DC OUTPUT+V

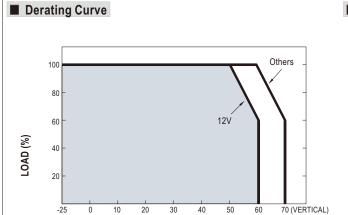
■ Block Diagram



■ DC OK Relay Contact

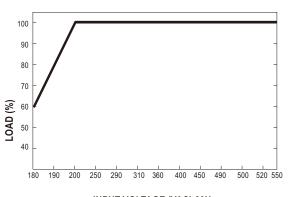
Contact Close	PSU turns on / DC OK.	
Contact Open	PSU turns off / DC Fail.	
Contact Ratings (max.)	30V/1A resistive load.	





AMBIENT TEMPERATURE (°C)

■ Static Characteristics



INPUT VOLTAGE (VAC) 60Hz