



#### ■ Features :

- Single and two phase wide input range 180~550VAC
- Built-in active PFC circuit compliance to EN61000-3-2
- High efficiency 91% and low power dissipation
- 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

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MODEL		WDR-240-24	WDR-240-48	
OUTPUT	DC VOLTAGE	24V	48V	
	RATED CURRENT	10A	5A	
	CURRENT RANGE	0~10A	0~5A	
	RATED POWER	240W	240W	
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	
	VOLTAGE ADJ. RANGE	24 ~ 28V	48 ~ 55V	
	VOLTAGE TOLERANCE Note.3	±1.0%	±1.0%	
	LINE REGULATION	±0.5%	±0.5%	
	LOAD REGULATION	±1.0%	±1.0%	
	SETUP, RISE TIME	800ms, 150ms/400VAC 1500ms, 150ms/230VAC at full load	d	
	HOLD UP TIME (Typ.)	18ms / 400VAC 18ms / 230VAC at full load		
INPUT	VOLTAGE RANGE Note.6	180 ~ 550VAC 254 ~ 780VDC		
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR (Typ.)	PF≥0.84/400VAC PF≥0.84/230VAC		
	EFFICIENCY (Typ.)	91%		
	AC CURRENT (Typ.)	1A/400VAC 2A/230VAC		
	INRUSH CURRENT (Typ.)	COLD START 50A		
	LEAKAGE CURRENT	<3.5mA / 530VAC		
	OVERLOAD	105 ~ 130% rated output power		
PROTECTION		Protection type: Constant current limiting, unit will shut down after	3 sec., auto-recovery after 1 minute if the fault condition is remove	
	OVER VOLTAGE	29 ~ 33V	56 ~ 65V	
		Protection type : Shut down o/p voltage, auto-recovery after 1 mi	nute if the fault condition is removed	
	OVER TEMPERATURE	90°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.)	60Vdc/0.3A, 30Vdc/1A, 30Vac/0.5A resistive load		
ENVIRONMENT	WORKING TEMP. Note.5	-30 ~ +70°C (Refer to "Derating Curve")		
	WORKING HUMIDITY	20 ~ 95% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH		
	TEMP. COEFFICIENT	$\pm 0.03\%$ °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 &	SAFETY STANDARDS	UI508 approved, IEC60950-1 CB approved by SIQ, design refer to GL; (meet EN60204-1)		
	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 EN55032 (CISPR32), EN61204-3 Class B, EN61000-3-2,-3		
	EMC IMMUNITY	$Compliance \ to \ EN61000-4-2, 3, 4, 5, 6, 8, 11, \ EN55024, \ EN61000-6-2 \ (EN50082-2), \ EN61204-3, \ heavy \ industry \ level, \ criteria \ A \ approved$		
OTHERS	MTBF	141.1K hrs min. MIL-HDBK-217F (25 )		
	DIMENSION	63*125.2*113.5mm (W*H*D)		
	PACKING	1.06Kg; 12pcs/13.7Kg/1.06CUFT		
NOTE	Ripple & noise are measur     Tolerance : includes set up     The power supply is consid     EMC directives.     Installation clearances : 40r	ally mentioned are measured at 400VAC input, rated load and 25°C of ambient temperature.  red at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.  p tolerance, line regulation and load regulation.  idered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets  from on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power.  is a heat source, 15mm clearance is recommended.		

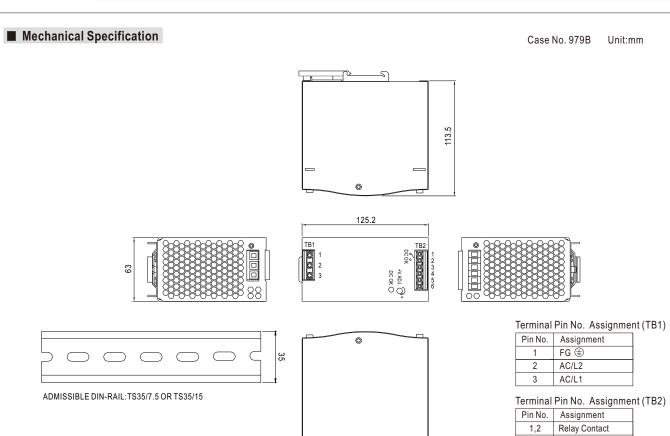
- 6. Derating may be needed under low input voltage. Please check the derating curve for more details.

DC OUTPUT +V

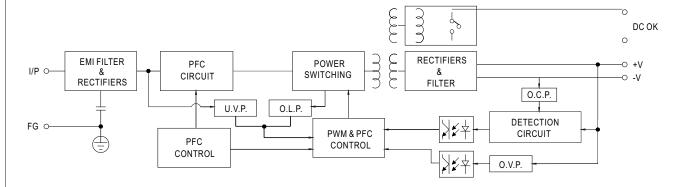
DC OUTPUT -V

3,4 5.6





#### ■ Block Diagram

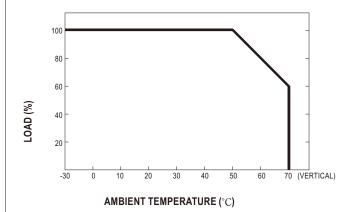


## **■** DC OK Relay Contact

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



### ■ Derating Curve



## ■ Output derating VS input voltage

