# mail

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



### Contact us

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#### 240W Single Output Industrial DIN RAIL Power Supply

## WDR-240 series



Features :

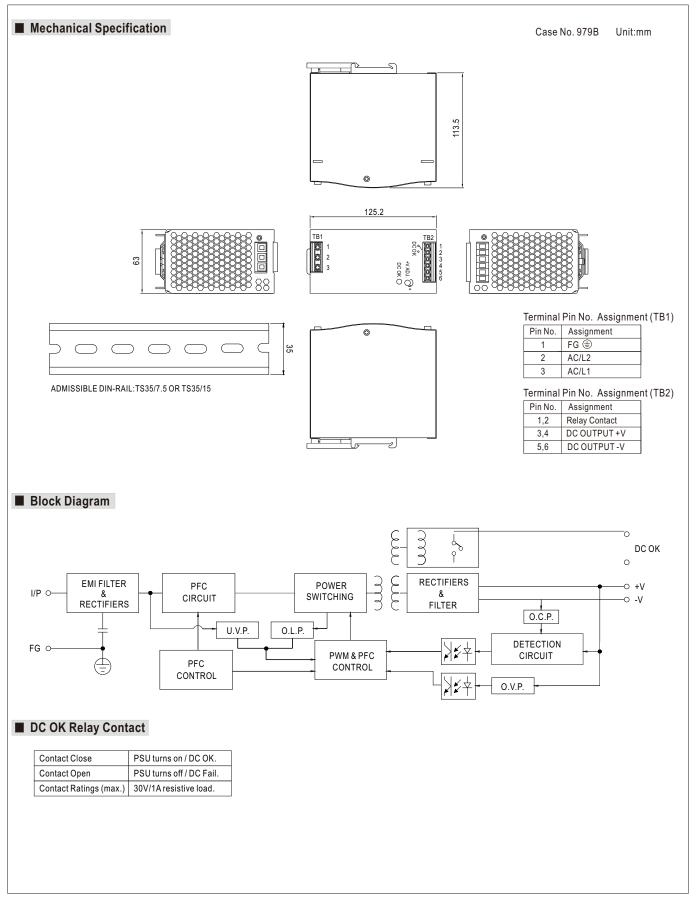
- Single and two phase wide input range 180~550VAC
- Built-in active PFC circuit compliance to EN61000-3-2
- High efficiency 91% and low power dissipation
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 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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#### **SPECIFICATION**

MODEL		WDR-240-24	WDR-240-48	
	DC VOLTAGE	24V	48V	
OUTPUT	RATED CURRENT	10A	5A	
	CURRENT RANGE	0~10A	0~5A	
	RATED POWER	240W	240W	
	RIPPLE & NOISE (max.) Note.2		150mVp-p	
	VOLTAGE ADJ. RANGE	24 ~ 28V	48 ~ 55V	
	VOLTAGE TOLERANCE Note.3		±1.0%	
	LINE REGULATION	±0.5%	+0.5%	
	LOAD REGULATION	±1.0%	+1.0%	
	SETUP, RISE TIME			
	HOLD UP TIME (Typ.)	18ms / 400VAC 18ms / 230VAC at full load		
INPUT		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		
PROTECTION		105 ~ 130% rated output power		
	OVERLOAD	Protection type : Constant current limiting, unit will shut down after 3 sec. , auto-recovery after 1 minute if the fault condition is removed		
	OVER VOLTAGE	29 ~ 33V	56 ~ 65V	
		Protection type : Shut down o/p voltage, auto-recovery after 1 minute if the fault condition is removed		
	OVER TEMPERATURE	$90^{\circ}C \pm 5^{\circ}C$ (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.)			
	WORKING TEMP. Note.5			
	WORKING HUMIDITY	20 ~ 95% 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: Compliance to IEC60068-2-6		
	SAFETY STANDARDS	UL508, EAC TP TC 004 approved, IEC60950-1 CB approved by SIQ, design refer to GL;(meet 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		
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C/ 70% RH		
EMC (Note 4)	EMC EMISSION	Compliance to EN55032 (CISPR32), EN61204-3 Class B, EN61000-3-2,-3, EAC TP TC 020		
OTHERS		Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2 (EN50082-2), EN61204-3, heavy industry level, criteria A,		
		EAC TP TC 020 approved		
	MTBF	141.1K hrs min. MIL-HDBK-217F (25°C)		
		63*125.2*113.5mm (W*H*D)		
	DIMENSION	1.06Kg; 12pcs/13.7Kg/1.06CUFT		
NOTE	<ol> <li>All parameters NOT specia</li> <li>Ripple &amp; noise are measure</li> <li>Tolerance : includes set up</li> <li>The power supply is consid EMC directives.</li> <li>Installation clearances : 40r In case the adjacent device</li> <li>Derating may be needed up</li> </ol>	ters NOT specially mentioned are measured at 400VAC input, rated load and 25°C of ambient temperature. bise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. i includes set up tolerance, line regulation and load regulation. 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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