



DR-30

30W Single Output Industrial DIN Rail Power Supply



■ Features :

- Universal AC input/Full range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- Isolation class II
- LED indicator for power on
- 100% full load burn-in test
- 2 years warranty

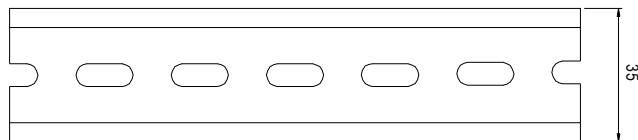
SPECIFICATION

MODEL		DR-30-5		DR-30-12		DR-30-15		DR-30-24	
OUTPUT	DC VOLTAGE	5V		12V		15V		24V	
	RATED CURRENT	3A		2A		2A		1.5A	
	CURRENT RANGE	0 ~ 3A		0 ~ 2A		0 ~ 2A		0 ~ 1.5A	
	RATED POWER	15W		24W		30W		36W	
	RIPPLE & NOISE (max.) <small>Note.2</small>	80mVp-p		120mVp-p		120mVp-p		150mVp-p	
	VOLTAGE ADJ. RANGE	4.75 ~ 5.5V		10.8 ~ 13.2V		13.5 ~ 16.5V		21.6 ~ 26.4V	
	VOLTAGE TOLERANCE <small>Note.3</small>	±2.0%		±1.0%		±1.0%		±1.0%	
	LINE REGULATION	±1.0%		±1.0%		±1.0%		±1.0%	
	LOAD REGULATION	±1.0%		±1.0%		±1.0%		±1.0%	
	SETUP, RISE TIME	100ms, 30ms/230VAC		100ms, 30ms/115VAC at full load					
HOLD UP TIME (Typ.)	100ms/230VAC		21ms/115VAC at full load						
INPUT	VOLTAGE RANGE	85 ~ 264VAC		120 ~ 370VDC					
	FREQUENCY RANGE	47 ~ 63Hz							
	EFFICIENCY (Typ.)	74%		81%		82%		83%	
	AC CURRENT (Typ.)	0.88A/115VAC		0.48A/230VAC					
	INRUSH CURRENT (Typ.)	COLD START 15A/115VAC		30A/230VAC					
PROTECTION	OVERLOAD	105 ~ 160% rated output power							
		Protection type : Constant current limiting, recovers automatically after fault condition is removed							
	OVER VOLTAGE	5.75 ~ 6.75V		13.8 ~ 16.2V		17.25 ~ 20.25V		27.6 ~ 32.4V	
		Protection type : Shut down o/p voltage, re-power on to recover							
ENVIRONMENT	WORKING TEMP.	-20 ~ +60℃ (Refer to "Derating Curve")							
	WORKING HUMIDITY	20 ~ 90% RH non-condensing							
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH							
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)							
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6							
SAFETY & EMC (Note 4)	WITHSTAND VOLTAGE	I/P-O/P:3KVAC							
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25℃ / 70% RH							
	EMC EMISSION	Compliance to EN55011, EN55022 (CISPR22) Class B, EN61000-3-2,-3							
	EMC IMMUNITY	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024, EN61000-6-2, EN61204-3, heavy industry level, criteria A							
OTHERS	MTBF	441.5K hrs min. MIL-HDBK-217F (25℃)							
	DIMENSION	78*93*56mm (W*H*D)							
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ 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.								

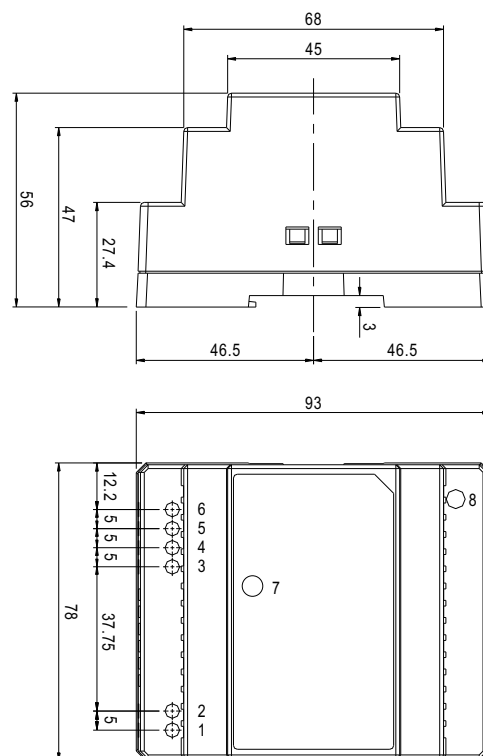
Mechanical Specification

Terminal Pin No. Assignment

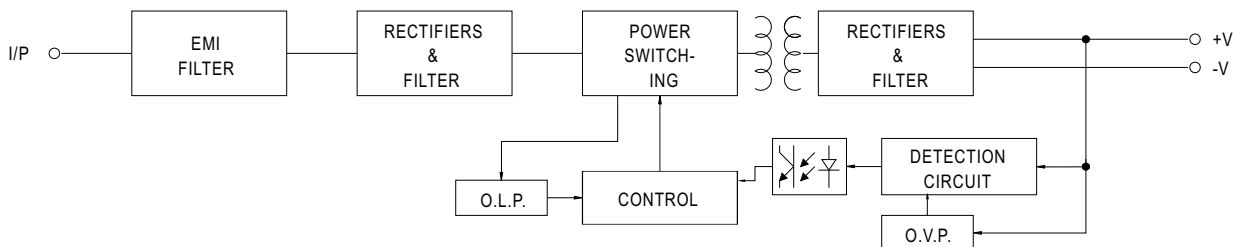
Pin No.	Assignment	Pin No.	Assignment
1	AC/N	5,6	-V
2	AC/L	7	LED
3,4	+V	8	+V ADJ.



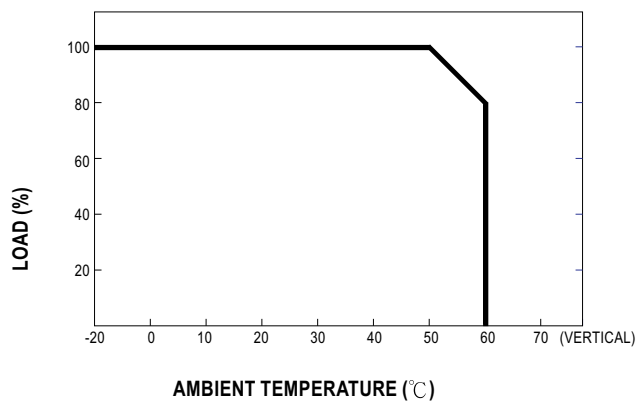
ADMISSIBLE DIN-RAIL: TS35/7.5 OR TS35/15



Block Diagram



Derating Curve



Output Derating VS Input Voltage

