



■ Features

- AC input range selectable by switch
- Withstand 300VAC surge input for 5 seconds
- No load power consumption<0.75W
- Miniature size and 1U low profile
- High operating temperature up to 70 °C
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Fanless deisgn,no noisy good choice forhousehold appliances
- High efficiency, long life and high reliability LED indicator for power on
- 100% full load burn-in test
- 2 years warranty

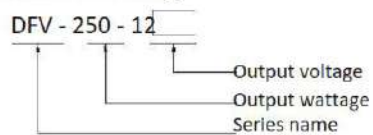
■ Applications

- Industrial automation machinery
- Industrial control system
- Mechanical and electrical equipment
- Electronic instruments, equipments or Apparatus Household appliances
- For led lighting,led advertisement,as built-in model for fabric light or showcase etc.

■ Description

DCV-250 series is a 250W single-output enclosed type power supply with 21mm of low profile design. Adopting the input of 200VAC or 240VAC, the entire series provides an output voltage line of 12V and 24V. In addition to the high efficiency up to 90%, the design of metallic mesh case enhances the heat dissipation of DFV-300 that the whole series operates from - 30°C through 70°C under air convection with a fan. Delivering an extremely low no load power consumption (less than 0.75W), it allows the end system to easily meet the worldwide energy requirement. DCV-250 has the complete protection functions and 5G anti-vibration capability; It is complied with the international safety regulations such as EN60335-1,EN61558-1/-2-16 and GB4943. DFV-300 series serves as a high price-to-performance power supply solution for various industrial applications.

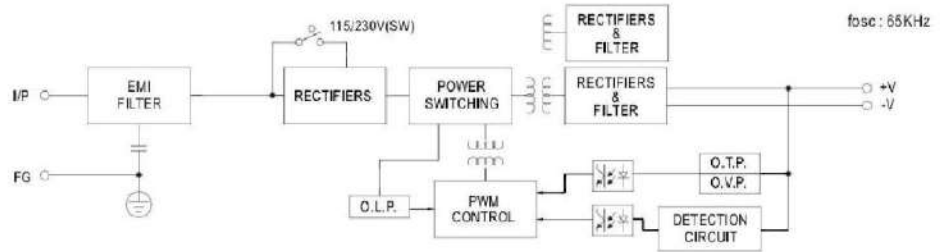
■ Model Encoding



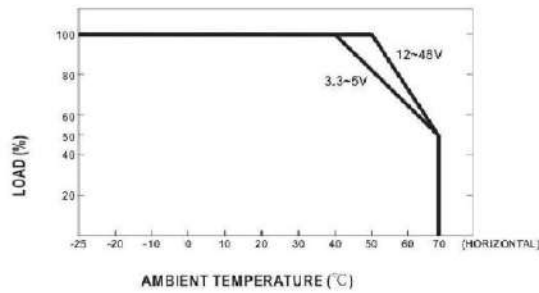
SPECIFICATION

MODEL		DCV-250-12	DCV-250-24		
OUTPUT	DC VOLTAGE	12V	24V		
	RATED CURRENT	20.8A	10.4A		
	CURRENT RANGE	0 ~ 20.8A	0 ~ 10.4A		
	RATED POWER	250W	250W		
	RIPPLE & NOISE (max.) Note.2	200mVp-p	200mVp-p		
	VOLTAGE ADJ. RANGE	11.5 ~ 12.5V	23 ~ 25V		
	VOLTAGE TOLERANCE Note.3	±1.0%	±1.0%		
	LINE REGULATION	±0.5%	±0.5%		
	LOAD REGULATION Note.5	±0.5%	±0.5%		
	SETUP, RISE TIME	500ms, 30ms/230VAC 500ms, 30ms/115VAC at full load			
HOLD UP TIME (Typ.)	16ms/230VAC 12ms/115VAC at full load				
INPUT	VOLTAGE RANGE	85 ~ 132VAC / 170 ~ 264VAC by switch		240 ~ 370VDC (switch on 230VAC)	
	FREQUENCY RANGE	47 ~ 63Hz			
	EFFICIENCY (Typ.)	87.5%	89.0%		
	AC CURRENT (Typ.)	4.0A/115VAC 2.2A/230VAC			
	INRUSH CURRENT (Typ.)	COLD STAR 60A/230VAC			
	LEAKAGE CURRENT	<2.0mA / 240VAC			
PROTECTION	OVER LOAD	110 ~ 140% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed			
	OVER VOLTAGE	13.8 ~ 16.2V	28.8 ~ 33.6V		
		Protection type : Shut down o/p voltage, re-power on to recover			
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover			
ENVIRONMENT	WORKING TEMP.	-30 ~ +70 °C (Refer to "Derating Curve")			
	WORKING HUMIDITY	20 ~ 90% RH non-condensing			
	STORAGE TEMP., HUMIDITY	-40 ~ +85 °C, 10 ~ 95% RH			
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50 °C)			
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes			
SAFETY & EMC (Note 7)	SAFETY STANDARDS	EN60335-1, EN61558-1 / -2-16, CCC GB4943 approved			
	WITHSTAND VOLTAGE	I/P-O/P: 3.75KVAC I/P-FG: 2KVAC O/P-FG: 1.25KVAC			
EMC (Note 7)	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC / 25 °C / 70% RH			
	EMC EMISSION	Compliance to EN55022 (CISPR22), GB9254 Class B, EN55014, EN61000-3-2 Class A (≤75% Load), EN61000-3-3			
	EMC IMMUNITY	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61000-6-2 (EN50082-2), heavy industry level			
OTHERS	MTBF	601K hrs min. MIL-HDBK-217F (25 °C)			
	DIMENSION	312*53*21mm (L*W*H)			
	PACKING	0.4Kg ; 60pcs/21.5Kg/ 36*32*27.8 CM			
NOTE	<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 °C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>4. Line regulation is measured from low line to high line at rated load.</p> <p>5. Load regulation is measured from 0% to 100% rated load.</p> <p>6. Length of set up time is measured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the set up time.</p> <p>7. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to EMI testing of component power supplies.</p> <p>8. The ambient temperature derating of 5 °C/1000m is needed for operating altitude greater than 2000m (6500ft).</p>				

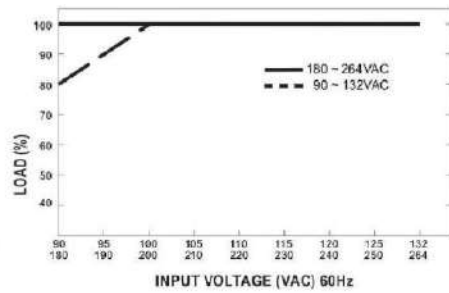
■ Block Diagram



■ Derating Curve



■ Static Characteristics



■ Mechanical Specification

Unit:mm

