

## Features

AC input range selectable by switch
Withstand 300VAC surge input for 5 secondS

No load power consumption<0.5W Miniature size and 1U low profile

High operating temperature up to 70  $^{\circ}$ C

Protections: Short circuit / Overload / Over voltage /

Over temperature

Cooling by free air convection

Compliance to IEC/EN 60335-1(PD3) and

IEC/EN61558-1, 2-16 for household appliances

Operating altitude up to 5000 meters

Withstand 5G vibration test

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

## Description

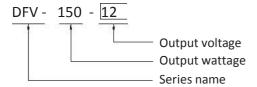
DFV-150 series is a 150W single-output enclosed type power supply with 18mm of low profile design. Adopting the input of 115VAC or 230VAC(selectable by switch), the entire series provides an output voltage line of 12V and 24V.

In addition to the high efficiency up to 90%, the design of metallic mesh case enhances the heat dissipation of DFV-150 that the whole series operates from -30  $^{\circ}$ C through 70  $^{\circ}$ C under air convection without a fan.

Delivering an extremely low no load power consumption (less than 0.5W), it allows the end system to easily meet the worldwide energy requirement. DFV-150 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-150 series serves as a high price-to-performance power supply solution for various industrial applications.

## Model Encoding



SPECIFICATION

MODEL		DFV-150-12	DFV-150-24			
<del>2</del> /2	DC VOLTAGE	12V	24V			
OUTPUT	RATED CURRENT	12.5A	6.25A		*	
	CURRENT RANGE	0 ~ 12.5A	0 ~ 6.25A			1
	RATED POWER	150W	150W			9
	RIPPLE & NOISE (max.) Note					
	VOLTAGE ADJ. RANGE	10.2 ~ 13.8V	200mVp-p 21.6 ~ 28.8V	2		*
	VOLTAGE TOLERANCE Note.		±1.0%			
	LINE REGULATION Note.4		±0.5%	77		
	LOAD REGULATION Note.5		±0.5%			
	SETUP, RISE TIME	500ms, 30ms/230VA		5VAC at full load	27	
	HOLD UP TIME ( Typ.)	500ms, 30ms/230VAC 500ms, 30ms/115VAC at full load  40ms/230VAC 35ms/115VAC at f ull l oad				
	VOLTAGE RANGE	85 ~ 132VAC / 170 ~ 264VAC by switch 240 ~ 370VDC(switch on 230VAC)				
INPUT	FREQUENCY RANGE	47 ~ 63Hz				
	EFFICIENCY (Typ.)	88% 89%				
	AC CURRENT (Typ.) INRUSH CURRENT (Typ.)	2.8A/115VAC 1.6A/230VAC				
	LEAKAGE CURRENT	<0.75mA / 240VAC				
	LEARNOE CONNEIVI					
PROTECTION	OVER LOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed				
	OVER VOLTAGE	13.8 ~ 16.2V	28.8 ~ 33.6V	itomatically after faul	Condition is remove	u 
	OVED TEMPEDATURE	Protection type : Shut down o/p voltage, re-power on to recover  Shut down o/p voltage, re-power on to recover				
SAFETY & EMC (Note 7)	OVER TEMPERATURE WORKING TEMP.	-30 ~ +70 °C (Refer to "Derating Curve")				
		20 ~ 90% RH non-condensing				
	WORKING HUMIDITY	20 90% RH Hon-Condensing				
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)				
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes				
	SAFETY STANDARDS	EN60335-1, EN61558-1 /-2-16,CCC GB4943 approved				
		I/P-O/P:3.75KVAC I/ P-FG:2 KVAC O/P-FG:1.25 KVAC				
	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, EN61000-3-2Class 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 i ndustry I evel				
	MTBF	601K h r s min. MIL-HDBK-217F ( 25 °C )				
OTHERS	DIMENSION	226*53*18mm (L*W*H)				
	PACKING	0.23Kg; 60pcs/15.2Kg/24*24*38CM				
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. Line regulation is measured from low line to high line at rated load.  5. Load regulation is measured from 0% to 100% rated load.  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.  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.  8. The ambient temperature derating of 5℃/1000m is needed for operating altitude greater than 2000m (6500ft).					

