

■ 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 advertisment,as
built-in model for fabric light or
showcase etc.

■ Description

DCV-100 series is a 100W 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.

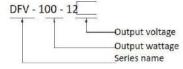
In addition to the high efficiency up to 90%, the design of metallic mesh case enhances the heat dissipation of DFV-300 that the whole series operates from - 30 $^{\circ}$ C through 70 $^{\circ}$ C under air convection with a fan.

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-100 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-

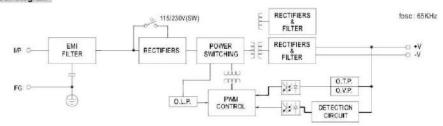
300 series serves as a high price-to-performance power supply solution for various industrial applications.

■ Model Encoding



MODEL	inell.	DCV-100-12	DCV-100-24			
MODEL	DC VOLTAGE	12V	24V			_
OUTPUT	RATED CURRENT	8A	4A		7	
	CALCON CONTRACTOR OF THE CONTR		0~4A		_	
	CURRENT RANGE RATED POWER	0~8A 100W		-		
	Transferred of the control of the	0.000	100W		-	
	RIPPLE & NOISE (max.) Note.		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	LEEGISTE /	±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 Shut down o/p voltage,	re-power on to reco	ver	
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover				
ENVIRONM	WORKING TEMP.	-30 ~ +70 ℃ (Refer to "Derating Curve")				
	WORKING HUMIDITY	20~90% RH non-condensing				
	NT STORAGE TEMP., HOMIDT Y -40 ~ +85 ℃, 10 ~ 95% RH					
	TEMP. COEFFICIENT	±0.03%/℃ (0~50℃)				
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes				
	SAFETY STANDARDS	EN60335-1, EN61558-1 /-2-16,CCC GB4943 approved				
SAFFTY &	WITHSTAND VOLTAGE	1/P-O/P:3.75KVAC 1/ P-FG:2 KVAC O/P-FG:1.25 KVAC				
		1/P O/P 1/P EG O/P EG:100M Obms / 500VDC / 25 % / 700V PH				
(Note 7)	ISOLATION RESISTANCE	1/ P-O/P, I/ P-FG, O/P-FG:100M Ohms / 500VDC / 25 °C / 70% RH				
	EMC EMISSION EMC IMMUNITY	Compliance to EN55022 (CISPR22), GB9254 Class B, EN55014, EN61000-3-2 Class A (<75% Load), EN61000-3-3				
		Compliance to EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 (EN50082-2), heavy industry level				
OTHERS	MTBF	601Khrsmin.	MIL-HDBK-217F (25 %	-)		
	DIMENSION	179*53*21mm (L*W*H)				
	PACKING	The state of the s	8.5Kg/36*32*27.8 CM			
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 ℃ of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. Line regulation is measured from low line to high line at rated load. Load regulation is measured from % to 100% rated load. 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. 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 direc ves. For guidance on how to perform these EMC tests, please refer to EMI tesing of component power supplies. The ambient temperature derating of 5 ℃ /1000m is needed for operating altitude greater than 2000m (6500ft). 					

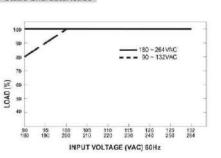
■ Block Diagram



■ Derating Curve

LOAD (%) AMBIENT TEMPERATURE (°C)

■ Static Characteristics



Unit:mm

■ Mechanical Specification



