

Features

AC input range selectable by switch
Withstand 300VAC surge input for 5 second
No load power consumption<0.5W
Miniature size and 1U low profile
High operating temperature up to 70 °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

Applications

Industrial automation machinery Industrial control system Mechanical and electrical equipment Electronic instruments, equipments or Apparatus Household appliances

Description

2 years warranty

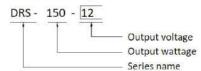
DRS-150 series is a 150W single-output enclosed type power supply with 30mm of low profile design. Adopting the input of 115VAC or 230VAC(selectable by switch), the entire series provides an output voltage line of 12V, 15V, 24V, 36V and 48V.

In addition to the high efficiency up to 90%, the design of metallic mesh case enhances the heat dissipation of DRS-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. DRS-150 has the complete protection functions and 5G anti-vibration capability;

It is complied with the international safety regulations such as TUV EN60950-1,EN60335-1,EN61558-1/-2-16, UL60950-1 and GB4943. DRS-150 series serves as a high price-to-performance power supply solution for various industrial applications.

■ Model Encoding



CD	EC	C	CAT	ION
SF	L	11	CMI	IOIV

MODEL		DRS-150-12	DRS-150-15	DRS-150-24	DRS-150-36	DRS-150-48			
	DC VOLTAGE	12V	15V	24V	36V	48V			
оитрит	RATED CURRENT	12.5A	10A	6.5A	4.3A	3.3A			
	CURRENT RANGE	0 ~ 12.5A	0~10.0A	0 ~ 6.5A	0 ~ 4.3A	0 ~ 3.3A			
	RATED POWER	150W	150W	150W	150W	150W			
	RIPPLE & NOISE (max.) Note	2 150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p			
	VOLTAGE ADJ. RANGE	10.2 ~ 13.8V	13.5 ~ 18V	21.6 ~ 28.8V	32.4 ~ 39.6V	43.2 ~ 52.8V			
	VOLTAGE TOLERANCE Note.	3 ±1.0%	±1.0%	±1.0%	±1.0%	±1.0%			
	LINE REGULATION Note.4	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%			
	LOAD REGULATION Note.5	***************************************	±0.5%	±0.5%	±0.5%	±0.5%			
	SETUP, RISE TIME	500ms, 30ms/230	VAC 500ms,30m	s/115VAC at full load	-				
	HOLD UP TIME (Typ.)	40ms/230VAC 35ms/115VAC at full oad							
INPUT	VOLTAGE RANGE	85 ~ 132VAC / 170 ~ 264VAC by switch 240 ~ 370VDC(switch on 230VAC)							
	FREQUENCY RANGE	47 ~ 63Hz							
	EFFICIENCY (Typ.)	87.5%	88.5%	89%	89%	90%			
	AC CURRENT (Typ.)	2.8A/115VAC	1.6A/230VAC	10070	JOSHAN	1,53,5			
	INRUSH CURRENT (Typ.)	COLD STAR 60A/230VAC							
	LEAKAGE CURRENT	<0.75mA / 240VAC							
	OVER LOAD	110 ~ 140% rated output power							
		Protection type: Hiccup mode, recovers automatically after fault condition is removed							
PROTECTION	OVER VOLTAGE	13.8 ~ 16.2V	18.75 ~ 21.75V	28.8 ~ 33.6V	41.4 ~ 48.6V	55.2 ~ 64.8V			
NO ILCIION		Protection type :	Shut down o/p voltag	e. re-power on to reci	over				
	OVER TEMPERATURE	Protection type: Shut down o/p voltage, re-power on to recover Shut down o/p voltage, re-power on to recover							
	WORKING TEMP.	-30 ~ +70 °C (Refer to "Derating Curve")							
	WORKING HUMIDITY	20 ~ 90% RH non-condensing							
NVIRONME	NT STORAGE TEMP., HUMID								
	TEMP. COEFFICIENT	±0.03%/°C (0 ~50°C)							
	VIBRATION	10 ~ 500Hz, SG 10min./1cycle, 60min. each along X, Y, Z axes							
	SAFETY STANDARDS								
		UL60950-1, TUV EN60950-1, EN60335-1, EN61558-1 /-2-16,CCC GB4943 approved 1/P-O/P:3.75KVAC 1/ P-FG:2 KVAC O/P-FG:1.25 KVAC							
AFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG: 100M Ohms / 500VDC / 25 °C / 70% RH							
OTHERS	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 i ndustry l evel							
	MTBF	601K h r s min. MIL-HDBK-217F (25 °C)							
	MONTH.	162*97*30mm (L*W*H)							
	DIMENSION	0.38Kg; 60pcs/23.0Kg/35.6*32.5*38CM							
NOTE	1. All parameters NOT spec				90 - 4 11 - 14				
	 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 0% 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 directives. For guidance on how to perform these EMC tests, please refer to EMI testing of component power supplies. The ambient temperature derating of 5 °C/1000m is needed for operating altitude greater than 2000m (6500ft). 								

