

## Features

Wide input voltage range
Withstand 300VAC surge input for 5 second

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No load power consumption<0.2W

Miniature size and 1U low profile

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

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

DRS-35 series is a 35W single-output enclosed type power supply with 30mm of low profile design.

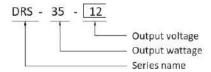
Adopting the input of 115VAC or 230VAC, the entire series provides an output voltage line of 12V, 15V, 24V, 36V and 48V.

In addition to the high efficiency up to 90%, the design of metallic mesh case enhances the heat dissipation of DRS-35 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 0.2W), it allows the end system to easily meet the worldwide energy requirement. DRS-35 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-35 series serves as a high price-to-performance power supply solution for various industrial applications.

## ■ Model Encoding



MODEL		DRS-35-12	DRS-35-15	DRS-35-24	DRS-35-36	DRS-35-48	
OUTPUT	DC VOLTAGE	12V	15V	24V	36V	48V	
	RATED CURRENT	3.0A	2.4A	1.5A	1.0A	0.8A	
	CURRENT RANGE	0~3.0A	0~2.4A	0~1.5A	0 ~ 1.0A	0 ~ 0.8A	
	RATED POWER	35W	35W	36W	36W	36W	
	RIPPLE & NOISE (max.) Not	a.2 120mVp-p	120mVp-p	150mVp-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		±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%	±0.5%	
	SETUP, RISE TIME 500ms, 30ms/230VA		A CONTRACT C				
	HOLD UP TIME ( Typ.)	30ms/230VAC 12ms/115VAC at full load					
	VOLTAGE RANGE	85 ~ 132VAC / 170 ~ 264VAC by switch 240 ~ 370VDC(switch on 230VAC)					
INPUT	FREQUENCY RANGE	47 ~ 63H2					
	EFFICIENCY (Typ.)	86%	86%	86%	88%	89%	
	AC CURRENT (Typ.)		0.42A/230VAC	10076	100.0	105%	
	INRUSH CURRENT (Typ.)	COLD STAR 45A/230VAC					
	LEAKAGE CURRENT	<0.75mA / 240VAC					
PROTECTION		110 ~ 140% rated output power					
	OVER LOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed					
	OVER VOLTAGE	13.8 ~ 16.2V	18.75 ~ 21.75V	28.8 ~ 33.6V	41.4 ~ 48.6V	55.2 ~ 64.8V	
						33.2 04.80	
	OVER TEMPERATURE	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)	WORKING TEMP.	-30 ~+70 ℃ (Refer to "Derating Curve")					
	WORKING HUMIDITY	20 ~ 90% RH non-condensing					
		STORAGE TEMP., HUMIDITY -40 ~ +85°C, 10 ~ 95% RH					
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)					
	VIBRATION	10 ~ 500Hz, 5G 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  I/P-O/P:3.75KVAC					
	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 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					
	MTBF	601K h r s min. MIL-HDBK-217F (25 °C)					
OTHERS		Control of the Contro					
	DIMENSION	99*83*30mm (L*W*H)					
NOTE	PACKING	ecially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.					
NOTE	2. Ripple & noise are mea: 3. Tolerance: includes set 4. Line regulation is meas: 5. Load regulation is meas: 6. Length of set up time is time. 7. The power supply is cor mounting the unit on a EMC directives. For guid 8. The ambient temperatu	sured at 20MHz of bar up tolerance, line reg ured from low line to l ured from 0% to 100% measured at cold first nsidered a component 360mm*360mm meta lance on how to perfo	ndwidth by using a 12" ulation and load regula ingh line at rated load. of rated load. of start. Turning ON/OFI which will be installed il plate with 1mm of the rm these EMC tests, pl	twisted pair-wire term tion.  The power supply ver tinto a final equipmen ickness. The final equi ease refer to EMI tes	y quickly may lead to in t. All the EMC tests are pment must be re-confiting of component pow	Tuf parallel capacitor.  acrease of the set up  been executed by  trmed that it still meets	

