

Features

AC input range selectable by switch Withstand 300VAC surge input for 5 second No load power consumption<0.75W

Miniature size and 1U low profile High operating temperature up to 70 ℃ Protections: Short circuit / Overload / Over voltage /

Over temperature protection etc

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

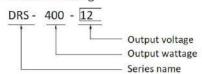
DRS-400 series is a 400W single-output enclosed type power supply with 30mm of low profile design. Adopting the input of 115VAC or 230VAC(selectable by switch), the entire series provides an output voltage line of 12V, 15V, 24V, 36V and 48V.

In addition to the high efficiency up to 90%, the design of metallic mesh case enhances the heat dissipation of DRS-400 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. DRS-400 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-400 series serves as a high price-to-performance power supply solution for various industrial applications.

Model Encoding



HIE Name: DRS-400-SPEC

SPECIFI	CATIO	N

MODEL		DRS-400-12	DRS-400-15	DRS-400-24	DRS-400-36	DRS-400-48		
	DC VOLTAGE	12V	15V	24V	36V	48V		
	RATED CURRENT	33.3A	26.6A	16.6A	11.1A	8.3A		
	CURRENT RANGE	0~33.3A	0 ~ 26.6A	0~16.6A	0 ~ 11.1A	0 ~ 8.3A		
OUTPUT	RATED POWER	400W	400W	400W	400W	400W		
	RIPPLE & NOISE (max.) Note	2 150mVp-p	150mVp-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%		
	SETUP, RISE TIME	500ms, 30ms/230VAC 500ms,30ms/115VAC at full load						
	HOLD UP TIME (Typ.)	16ms/230VAC 12ms/115VAC at full load						
	VOLTAGE RANGE	85 ~ 132VAC / 170 ~ 264VAC by switch 240 ~ 370VDC(switch on 230VAC)						
	FREQUENCY RANGE	85 - 132VAC / 170 - 264VAC by switch 240 - 370VDC(switch on 230VAC)						
	EFFICIENCY (Typ.)	85%	86.0%	0004	88%	000/		
NPUT				88%	88%	89%		
	AC CURRENT (Typ.) INRUSH CURRENT (Typ.)	6.8A/115VAC 3.4A/230VAC						
	LEAKAGE CURRENT	COLD STAR 60A/230VAC						
	LEAKAGE CUKKENT	<2.0mA / 240VAC						
	OVER LOAD	110 ~ 140% rated output power						
	OVERTOAD	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		
		Protection type : Shut down o/p voltage, re-power on to recover						
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover						
	WORKING TEMP.	-30 ~ +70 ℃ (Refer to "Derating Curve")						
	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
ENVIRONME	NT STORAGE TEMP., HUMID	ITY -40 ~ +85℃, 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	UL60950-1, TUV EN60950-1, EN60335-1, EN61558-1 /-2-16,CCC GB4943 approved						
	WITHSTAND VOLTAGE	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 l evel						
OTHERS	MTBF	327.9K h r s min. MIL-HDBK-217F (25 °C)						
	DIMENSION	215*115*30mm (L*W*H)						
	PACKING	0.67Kg; 30pcs/20.						
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C 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°C/1000m is needed for operating altitude greater than 2000m (6500ft).							

