

30W DIN RAIL SINGLE OUTPUT POWER SUPPLY

Single Output Switching Power Supply
HDR-30-24



■ Features

- Ultra slim design with 35mm (2SU)width
- Universal input 85~264VAC (277VAC operational)
- No load power consumption<0.3W
- Isolation class II
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- DIN rail TS-35/7.5 or 15 mountable
- Colling by free air convection



MODEL		HDR-30-24
OUTPUT	DC VOLTAGE	24V
	RATED CURRENT	1.5A
	CURRENT RANGE	0 ~ 1.5A
	RATED POWER	36W
	RIPPLE & NOISE (max.) Note.2	150mVp-p
	VOLTAGE ADJ. RANGE	21.6 ~ 29V
	VOLTAGE TOLERANCE Note.3	±1.0%
	LINE REGULATION	±1.0%
	LOAD REGULATION	±1.0%
	SETUP, RISE TIME	500ms, 50ms/230VAC 500ms, 50ms/115VAC at full load
	HOLD UP TIME (Typ.)	30ms/230VAC 12ms/115VAC at full load
INPUT	VOLTAGE RANGE	85 ~ 264VAC (277VAC operational) 120 ~ 370VDC (390VDC operational)
	FREQUENCY RANGE	47 ~ 63Hz
	EFFICIENCY (Typ.)	89%
	AC CURRENT (Typ.)	0.88A/115VAC 0.48A/230VAC
	INRUSH CURRENT (Typ.)	COLD START 25A/115VAC 45A/230VAC
PROTECTION	OVERLOAD Note .4	105 ~ 160% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed
	OVER VOLTAGE	30 ~ 36V Protection type : Shut down o/p voltage, re-power on to recover
	ENVIRONMENT	WORKING TEMP. -30 ~ +70°C (Refer to "Derating Curve")
	WORKING HUMIDITY	20 ~ 90% RH non-condensing
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C) RH non-condensing
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6
	OPERATING ALTITUDE	2000 meters

	OVER VOLTAGE CATEGORY	III;According to EN61558, EN50178,EN60664-1, EN62477-1;altitude up to 2000 meters			
SAFETY & EMC (Note 5)	SAFETY STANDARDS	UL60950-1, UL508, TUV EN61558-2-16, IEC60950-1, EAC TP TC 004, BSMI CNS14336-1 approved; Design refer to TUV EN60950-1			
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC			
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH			
	EMC EMISSION	Parameter	Standard	Test Level / Note	
		Conducted	EN55032(CISPR32), CNS13438	Class B	
		Radiated	EN55032(CISPR32), CNS13438	Class B	
		Harmonic Current	EN61000-3-2	Class A	
		Voltage Flicker	EN61000-3-3	-----	
	EMC IMMUNITY	EN55024, EN55035, EN61000-6-2, EN61204-3			
		Parameter	Standard	Test Level /Note	
ESD		EN61000-4-2	Level 3, 8KV air; Level 2, 4KV contact, criteria A		
Radiated Susceptibility		EN61000-4-3	Level 3, criteria A		
EFT/Burest		EN61000-4-4	Level 3, criteria A		
Surge		EN61000-4-5	Level 4,2KV/L-N, criteria A		
Conducted		EN61000-4-6	Level 3, criteria A		
Magnetic Field		EN61000-4-8	Level 4, criteria A		
Voltage Dips and interruptions	EN61000-4-11	> 95% dip 0.5 periods, 30% dip 25 periods, > 95% interruptions 250 periods			
OTHERS	MTBF	968.1K hrs min. MIL-HDBK-217F (25°C)			
	DIMENSION	35*90*54.5mm (W*H*D)			
	PACKING	0.12Kg;96pcs/12.5Kg/1.04CUFT			
NOTE	<ol style="list-style-type: none"> All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C 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. Constant current limiting operating within 50%~100% rated output voltage; protection type for short circuit is hiccup mode, it will recover automatically after fault condition is removed. The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives. For guidance on how to perform these EMS tests, please refer to "EMI testing of component power supplies." The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude greater than 2000m (6500ft). 				