Pollock Industries

Technical Data Sheet

120 Watt, 48 Volt, Three Phase Input Single Output, DIN RAIL Power Supply

UNIT CODE

DRH 120-48

DESCRIPTION

120 Watt, 48 Volt, Three Phase Input, Single Output, DIN RAIL Power Supply

SPECIFICATIONS		
AC Input	Output	Approvals
Three-Phase (340~550VAC Input Range)	+48VDC @ 0~2.5A	511 − 5 − 5 − 5 − 5 − 5 − 5 − 5 − 5 − 5 −

Features at a Glance:

Three-Phase AC 340 ~ 550V wide range input Quite efficient (86%) and low power dissipation Protections: Short circuit / Overload / Over voltage / Over temperature Fixed Switching at 70KHz LED indication for power on Quiet - Cooling by natural (free air) convection Operational Temperature range: -20 ~ +60°C Installed on DIN rail TS35 / 7.5 or 15 100% full load burn-in test Safety standards: UL60950-1 approved, IEC60950-1 CB approved by SIQ EMC: EN61000-6-2 (EN50082-2) industrial immunity (See following pages for full EMC details)

Certificates: CUL / CB / CE

MTBF hours: 178.7 K hrs. MIL-HDBK-217F (25°C)

Case: 921A

Weight: 1.65 Lbs. (0.75 Kgs)

Dimensions: 2.57" W x 4.9" H x 3.93" D 65.5 x 125.2 x 100mm (W*H*D)

3 year warranty

Compact Alternative: C-WDR 120W-48V



DRH 120 fulfills requirements for low wattage, Three-Phase applications in an economical, industrial DIN rail power unit that's efficient (85%) and quiet.

Can be operated at the full load of 120W at ambient temperatures up to +50°C (or up to +60°C with some power derating). Standard features include protections for shortcircuit, overload, over voltage, over temperature and LED indication for power on.

Suitable applications include general telecom, factory automation, electromechanical, IT, security, data communications and control panel applications, and any 3-phase installations with fan-less or low noise requirements.

Pricing	1 ~ 9	\$ 119.00
	10+	\$ 99.50
	25+	\$ 87.70

Pollock Industries, Inc., PO Box 1003, White River, VT 05001 toll-free 1-866-665-5434 (603) 888-2467 sales@electracool.com



120W Single Output Industrial DIN RAIL Power Supply **DRH-120** series



Features :

- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Built-in constant current limiting circuit
- Can be installed on DIN rail TS-35/7.5 or 15
- EN61000-6-2(EN50082-2) industrial immunity level
- 100% full load burn-in test
- Fixed switching frequency at 70KHz
- 3 years warranty

°₽77™ CBC€

SPECIFICATION

MODEL		DRH-120-24	DRH-120-48	
	DC VOLTAGE	24V	48V	
OUTPUT	RATED CURRENT	5A	2.5A	
	CURRENT RANGE	0~5A	0~2.5A	
	RATED POWER	120W	120W	
	RIPPLE & NOISE (max.) Note.2	80mVp-p	80mVp-p	
	VOLTAGE ADJ. RANGE	24 ~ 28V	48 ~ 55V	
	VOLTAGE TOLERANCE Note.3	±1.0%	±1.0%	
	LINE REGULATION	±0.5%	±0.5%	
	LOAD REGULATION	±0.5%	±0.5%	
	SETUP, RISE, HOLD UP TIME	1700ms, 120ms, 16ms/400VAC 1000ms, 120ms, 30ms/500	VAC at full load	
	VOLTAGE RANGE	340 ~ 550VAC 480 ~ 780VDC		
	FREQUENCY RANGE	47 ~ 63Hz		
INPUT	EFFICIENCY (Typ.)	85%	86%	
	AC CURRENT	0.65A/400VAC 0.6A/500VAC	1	
	INRUSH CURRENT (max.)	COLD START 50A		
	LEAKAGE CURRENT	<3.5mA / 530VAC		
PROTECTION OVER VOLTAGE OVER TEMPERATURE		105 ~ 160% rated output power		
	OVERLOAD	Protection type : Constant current limiting, recovers automatically after fault condition is removed		
	OVER VOLTAGE	30 ~ 36V	59 ~ 66V	
		Protection type : Shut down o/p voltage, re-power on to recover		
	OVER TEMPERATURE	$85^{\circ}C \pm 5^{\circ}C$ (TSW) detect on heatsink of power switch		
		Protection type : Shut down o/p voltage, recovers automatically after temperature goes down		
WORKING TEMP.		-20 ~ +60°C (Refer to "Derating Curve")		
		20 ~ 90% RH non-condensing		
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C , 10 ~ 95% RH		
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)		
	VIBRATION	Component: 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting clip: Compliance to IEC60068-2-6		
SAFETY STANDARDS		UL60950-1 approved, IEC60950-1 CB approved by SIQ		
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC		
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH		
(Note 4)	EMC EMISSION	Compliance to EN55011 (CISPR11), EN55022 (CISPR22), EN61204-3 Class B		
. ,		Compliance to EN61000-4-2,3,4,5,6,8,11, EN61204-3, EN61000-6-2 (EN50082-2), heavy industry level, criteria A		
OTHERS	MTBF	178.7Khrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	65.5*125.2*100mm (W*H*D)		
	PACKING	0.75Kg; 20pcs/16Kg/1.29CUFT		
NOTE	 All parameters NOT specially mentioned are measured at 400VAC 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. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. 			

Pollock Industries, Inc., PO Box 1003, White River, VT 05001 toll-free 1-866-665-5434 (603) 888-2467 sales@electracool.com



DRH-120 series

