



DPP120 - 960 Series

120W, 240W, 480W & 960W 3 Phase
DIN Rail Mount Power Supplies

- Low Cost
- 12V, 24V or 48V Outputs
- Wide Range 340 to 575VAC Input
- Parallel Function Switch (240 & 480W)
- Current Share (960W)
- -40°C to +71°C Operation
- Convection Cooled

Key Market Segments & Applications

Industrial Controls:	Motor Control Systems
Factory Automation:	Process Control, Automotive,
Test & Measurement:	Chemical Processing
	Burn in & Test,
	Instrumentation Measurement

DPP120 - 960 Features and Benefits

Features

- PFC Compliant to EN61000-3-2
- UL508 Approvals
- TS35/7.5 or TS35/15 DIN Rail Mounting

Benefits

- Supports Global Use
- Easier System Configuration
- Easy System Integration

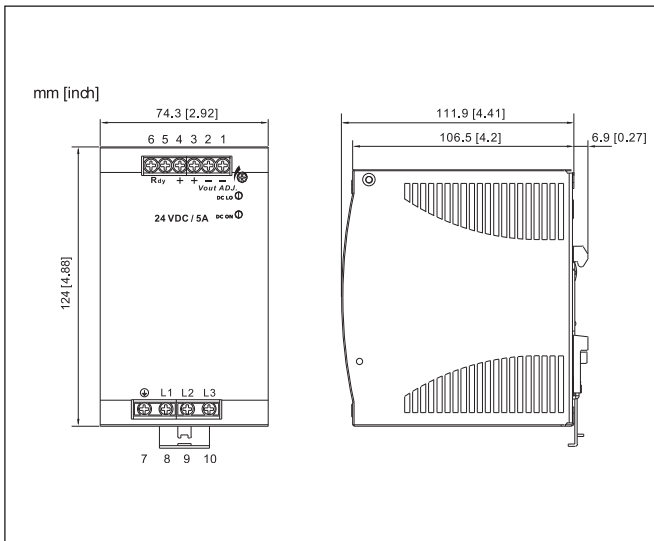
Specifications

ITEMS		MODELS	DPP120-xx-3	DPP240-xx-3	DPP480-xx-3	DPP960-xx-3
AC Input Voltage range (1)	VAC		340 - 575VAC, three phase			
Input Frequency	Hz		47 - 63Hz			
Inrush Current (380-480VAC) (typ)	A		10A	20A	20A	30A
Power Factor (2)	-		0.55	0.55	0.65	0.8
Input Current (400VAC) (typ)	A		0.36A	0.65A	1.1A	1.72A
Output Voltage Accuracy	%		-0, +1% of Nominal			
Line Regulation	%		±1%			
Load Regulation	%		±1% (±5% when set in parallel mode)			
Ripple and Noise (20MHz BW)	mV		100mV	100mV	100mV	80mV
Overcurrent Protection (Typ)	-		115 - 135%	120 - 140%	110 - 135%	110 - 130%
Overvoltage Protection	V		See model selector			
Overtemperature Protection	-		Yes, auto recovery			
Hold Up Time (380-480VAC)	ms		> 20ms	> 20ms	> 20ms	> 15ms
Parallel operation (up to 90% load)	-		Set in parallel (droop) mode - up to 2 units			
LED Indicators	-		Green LED = On, Red LED = DC Output Low			
DC Good Relay (24V models only)	-		0.3A rated normally open relay contacts, closes when output is above 17.6 - 19.4V			
Operating Temperature	-		-40°C ⁽³⁾ to +71°C (Derate linearly 2.5%/°C from 61°C to 71°C, 3.5%/°C for DPP960)			
Storage Temperature	-		-40°C to +85°C			
Operating Humidity (non condensing)	-		20 - 95% RH			
Cooling	-		Convection. Recommend 25mm clearance on all sides			
Withstand Voltage	-		Input to Output 3kVAC, Input to Ground 1.5kVAC for 1 min.			
Isolation Resistance	Ω		>100MΩ at 25°C & 70%RH, Output to Ground 500VDC			
Vibration	-		IEC 60068-2-6. 10- 500Hz, 2G on X, Y & Z axes			
Shock	-		IEC 60068-2-27. Half sinewave, 4G, 22ms, 3 times each face			
Safety Agency Approvals	-		UL508 Listed, UL60950-1, EN60950-1, CE			
Conducted & Radiated EMI	-		EN55022 class B			
Immunity	-		IEC 61000-4-2, -3, 4, -5, -6, -8, -11			
Weight (Typ)	g		800	1100	1720	3400g
Size (WxHxD)	mm		74.3 x 124 x 111.9	89 x 124 x 111.9	150 x 124 x 111.9	275.8 x 126.2 x 111.9
Switching Frequency	kHz		70	25	80	52
MTBF (Bellcore Issue 6 @ 40°C, GB)	Hours		527,000	488,000	411,000	352,000
Case material	-		Metal			
Warranty	yrs		3			

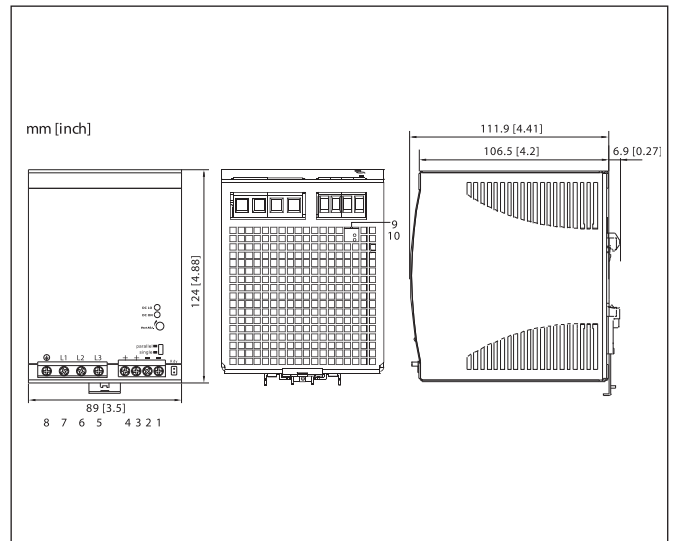
- Notes:** (1) Bi-phase input is permissible, but output load must be derated to 75% load
 (2) Passive, meets EN61000-3-2
 (3) DPP480 -30°C

Model Selector					
Model	Voltage (V)	Adjust Range (V)	Output Current (A)	Overvoltage (V)	Efficiency (%)
DPP120-12-3	12V	11.4 - 14.5V	10A	14.5 - 17.4V	87%
DPP120-24-3	24V	22.5 - 28.5V	5A	30 - 33V	89%
DPP240-24-3	24V	22.5 - 28.5V	10A	30 - 33V	90%
DPP480-24-3	24V	22.5 - 28.5V	20A	30 - 33V	90%
DPP960-24-3	24V	22.5 - 28.5V	40A	30 - 33V	92%
DPP240-48-3	48V	47 - 56V	5A	60 - 68V	91%
DPP480-48-3	48V	47 - 56V	10A	60 - 68V	91%
DPP960-48-3	48V	47 - 56V	20A	60 - 68V	93%

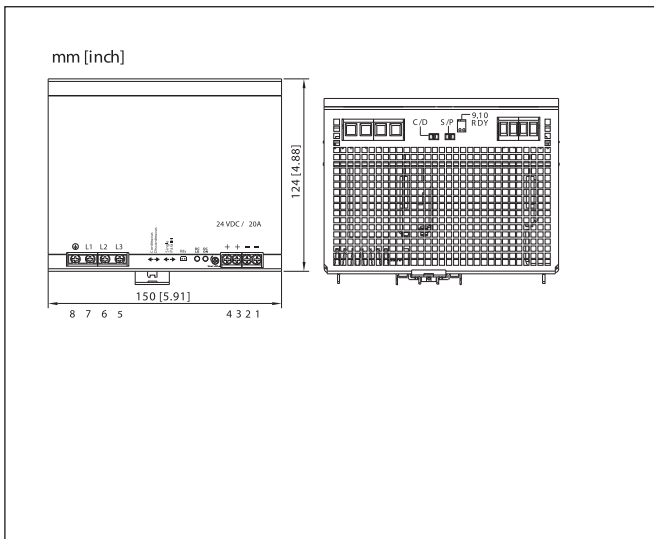
Outline Drawing DPP120



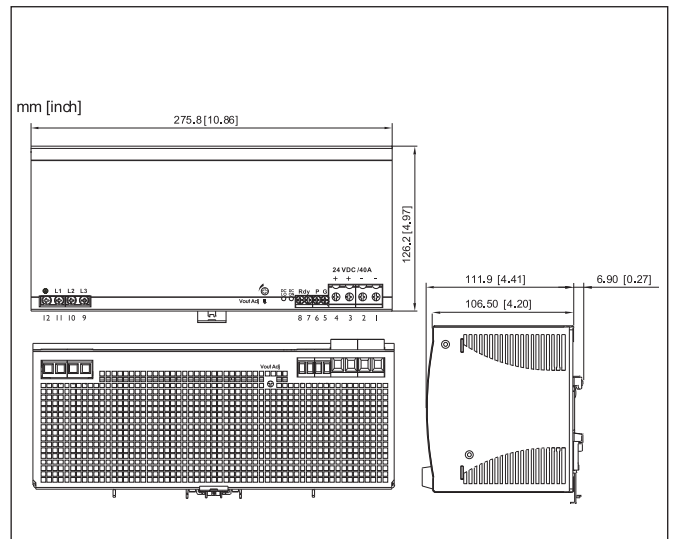
Outline Drawing DPP240



Outline Drawing DPP480



Outline Drawing DPP960



Snap-on Mounting: snap onto DIN Rail TS35/7.5 or TS35/15. (no tools required)



TDK-Lambda France SAS

Tel: +33 1 60 12 71 65
 tlf.fr.powersolutions@tdk.com
 www.emea.lambda.tdk.com/fr



Italy Sales Office

Tel: +39 02 61 29 38 63
 tlf.it.powersolutions@tdk.com
 www.emea.lambda.tdk.com/it



Netherlands

tlf.nl.powersolutions@tdk.com
 www.emea.lambda.tdk.com/nl



TDK-Lambda Germany GmbH

Tel: +49 7841 666 0
 tlq.powersolutions@tdk.com
 www.emea.lambda.tdk.com/de



Austria Sales Office

Tel: +43 2256 655 84
 tlq.at.powersolutions@tdk.com
 www.emea.lambda.tdk.com/at



Switzerland Sales Office

Tel: +41 44 850 53 53
 tlq.ch.powersolutions@tdk.com
 www.emea.lambda.tdk.com/ch



Nordic Sales Office

Tel: +45 8853 8086
 tlq.dk.powersolutions@tdk.com
 www.emea.lambda.tdk.com/dk



TDK-Lambda UK Ltd.

Tel: +44 (0) 12 71 85 66 66
 tlu.powersolutions@tdk.com
 www.emea.lambda.tdk.com/uk



TDK-Lambda Ltd.

Tel: +9 723 902 4333
 tli.powersolutions@tdk.com
 www.emea.lambda.tdk.com/il-en



TDK-Lambda Americas

Tel: +1 800-LAMBDA-4 or 1-800-526-2324
 tla.powersolutions@tdk.com
 www.us.lambda.tdk.com



TDK Electronics do Brasil Ltda

Tel: +55 11 3289-9599
 sales.br@tdk-electronics.tdk.com
 www.tdk-electronics.tdk.com/en



TDK-Lambda Corporation

Tel: +81-3-6778-1113
 www.jp.lambda.tdk.com



TDK-Lambda (China) Electronics Co. Ltd.

Tel: +86 21 6485-0777
 tlc.powersolutions@tdk.com
 www.lambda.tdk.com.cn



TDK-Lambda Singapore Pte Ltd.

Tel: +65 6251 7211
 tfs.marketing@tdk.com
 www.sg.lambda.tdk.com



TDK India Private Limited, Power Supply Division

Tel: +91 80 4039-0660
 mathew.philip@tdk.com
 www.sg.lambda.tdk.com

