



- 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

## DPP120 - 960 Series

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

### 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

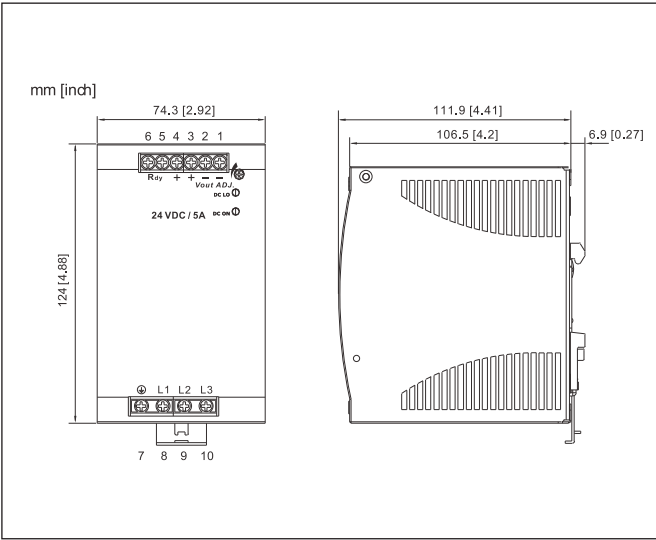
### Specifications

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			
DC Input Voltage range		VDC	480 - 820VDC			
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 <sup>(3)</sup> 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	2			

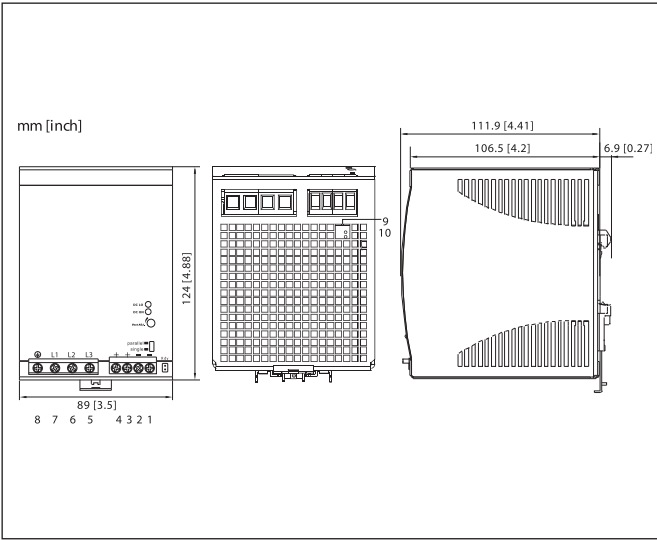
**Notes** (1) Single phase input is permissible, but output load must be derated to 75% load (2) Passive, meets EN61000-3-2 (3) DPP480 -30°C

<b>Model Selector</b>					
<b>Model</b>	<b>Voltage (V)</b>	<b>Adjust Range (V)</b>	<b>Output Current (A)</b>	<b>Overvoltage (V)</b>	<b>Efficiency (%)</b>
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%

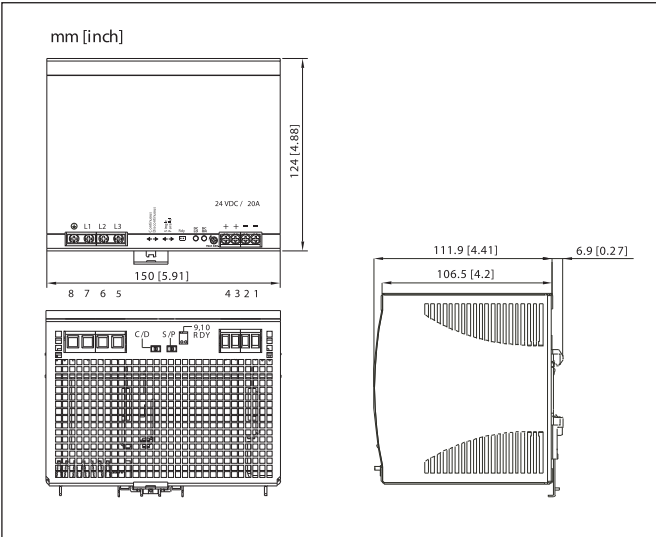
## Outline Drawing DPP120



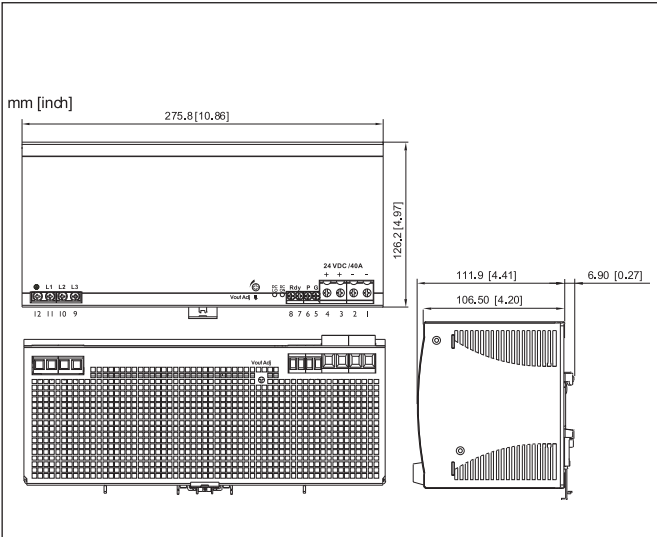
## Outline Drawing DPP240



## Outline Drawing DPP480



## Outline Drawing DPP960



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

**TDK-LAMBDA EMEA**

[www.emea.tdk-lambda.com](http://www.emea.tdk-lambda.com)



**TDK-Lambda France SAS**

Route de Grivery  
ZAC des Delaches  
CS 41077  
91978 Courtaboeuf Cedex  
France  
Tel: +33 1 60 12 71 65  
Fax: +33 1 60 12 71 66  
[france@fr.tdk-lambda.com](mailto:france@fr.tdk-lambda.com)  
[www.fr.tdk-lambda.com](http://www.fr.tdk-lambda.com)



**Italy Sales Office**  
Via dei Lavoratori 128/130  
20092 Cinisello Balsamo (MI)  
Italy  
Tel: +39 02 61 29 38 63  
Fax: +39 02 61 29 09 00  
[info.italia@it.tdk-lambda.com](mailto:info.italia@it.tdk-lambda.com)  
[www.it.tdk-lambda.com](http://www.it.tdk-lambda.com)



**TDK-Lambda Germany GmbH**

Karl-Bold-Strasse 40  
77855 Achern  
Germany  
Tel: +49 7841 666 0  
Fax: +49 7841 5000  
[info.germany@de.tdk-lambda.com](mailto:info.germany@de.tdk-lambda.com)  
[www.de.tdk-lambda.com](http://www.de.tdk-lambda.com)



**Austria Sales Office**  
Aredstrasse 22  
2544 Leobersdorf  
Austria  
Tel: +43 2256 655 84  
Fax: +43 2256 645 12  
[info.germany@de.tdk-lambda.com](mailto:info.germany@de.tdk-lambda.com)  
[www.de.tdk-lambda.com](http://www.de.tdk-lambda.com)



**TDK-Lambda UK Ltd.**

Kingsley Avenue  
Ilfracombe  
Devon EX34 8ES  
United Kingdom  
Tel: +44 (0) 12 71 85 66 66  
Fax: +44 (0) 12 71 86 48 94  
[powersolutions@uk.tdk-lambda.com](mailto:powersolutions@uk.tdk-lambda.com)  
[www.uk.tdk-lambda.com](http://www.uk.tdk-lambda.com)



**Nemic Lambda Ltd.**

Kibbutz  
Givat Hashlosha 48800  
Israel  
Tel: +9 723 902 4333  
Fax: +9 723 902 4777  
[info@nemic.co.il](mailto:info@nemic.co.il)  
[www.nemic.co.il](http://www.nemic.co.il)



**Russia**

Technical Support:  
St Petersburg  
Tel: +7 (812) 6580463  
Sales:  
Moscow  
Tel: +7 (499) 7557732  
[info@tdk-lambda.ru](mailto:info@tdk-lambda.ru)  
[www.tdk-lambda.ru](http://www.tdk-lambda.ru)

**LOCAL DISTRIBUTION**

