



## DPP15-100 Series

15-100W, 5-48V Output

DIN Rail Mount Power Supplies

- Low Cost
- 5V to 48V Outputs
- Universal Input
- Compact Size
- NEC Class 2 Compliant
- UL508 Listed
- -10°C to +71°C Operation
- RoHS Compliant

### Key Market Segments & Applications

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

### DPP15-100 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		DPP15	DPP25/30	DPP50	DPP100
	(1)	VAC				
AC Input Voltage range	(1)	VAC	85 - 264VAC			85 - 132VAC 176 - 264VAC
Input Frequency		Hz	47 - 63Hz			
DC Input Voltage range		VDC	90 - 375VDC			210 - 375VDC
Inrush Current (115 / 230VAC)		A	<35A	35 / 45A	35 / 50A	35 / 55A
Power Factor		-	Meets EN61000-3-2 Class A			
Max Input Current (230VAC)		A	0.25	0.4	0.7	1.2
Output Voltage Accuracy		%	±1% (24V outputs preset at 24.5V)			
Line Regulation		%	< 0.5%			
Load Regulation		%	< 0.5%			
Ripple/Noise		mV	<50mV (20MHz Bandwidth)			
Overcurrent Protection (Typ)		-	>120%			
Overvoltage Protection		V	125 - 137.5%			
Hold Up Time (115VAC input)		ms	> 20ms			
Parallel switch		-	No			Yes
LED Indicator		-	Green LED = On			
Operating Temperature		-	-10°C to +71°C (Derate linearly 5%/°C from 61°C to 71°C)			
Storage Temperature		-	-25°C to +85°C			
Operating Humidity		-	20 - 90% RH (non condensing)			
Cooling	(2)	-	Convection			
Withstand Voltage		-	Input to Output 3kVAC for 1 min.			
Shock		-	Half sine wave, 4G, 22ms, 3 times per face, X, Y, Z			
Vibration		-	10-500Hz (20 min sweep) 0.002G <sup>2</sup> /Hz, 1Grms acceleration X, Y, Z, 1 hour			
Isolation Resistance		Ω	>100MΩ at 25°C & 70%RH, Output to Ground 500VDC			
Safety Agency Approvals	(4)	-	UL60950-1, UL508, UL1310 <sup>(3)</sup> (Class 2), EN60950-1, CE Mark			
Emissions		-	EN55011, EN55022 Class B Radiated & Conducted, EN61000-6-3			
Immunity		-	EN61000-6-2, EN61000-4-2 Level4, EN61000-4-3, EN61000-4-6 Level 3			
			EN61000-4-4 Level 4 (I/P) Level 3 (O/P), EN61000-4-5 Level 4, EN61000-4-8, EN61000-4-11			
Weight (Typ)		g	130	260	390	
Size (WxHxD)		mm	23 x 75 x 97	45 x 75 x 91		73 x 75 x 97
Case material		-	Plastic			
MTBF (MIL-HDBK-217F, GF25)		Hours	287,000	>288,000	273,000	239,000
Warranty		yrs	3			

(1) Auto Select - DPP100 only

(3) Does not include DPP25-5 & DPP100-24 models. Evaluated to NEC NFPA70 Class 2 output per UL1310.

(2) Recommend 25mm clearance on all sides.

(4) Consult Sales Office for use under DC Input conditions

Model Selector						
Model	Output Voltage (V)	Output Adjust (V)	Output Curr. (A)	Max. Output Power (W)	Efficiency at Full Load (%)	
DPP25-5	5	5-6	5	25	78	
DPP30-12	12	9.9-12.1	2.5	30	82	
DPP50-15	15	11.9-15.1	3.4	50	85	
DPP15-24	24	22.5-28.5	0.63	15	80	
DPP30-24	24	22.5-28.5	1.3	30	84	
DPP50-24	24	22.5-28.5	2.1	50	86	
DPP100-24	24	22.5-28.5	4.2	100	87	
DPP50-48	48	48-56	1.05	50	87	

**Installation**

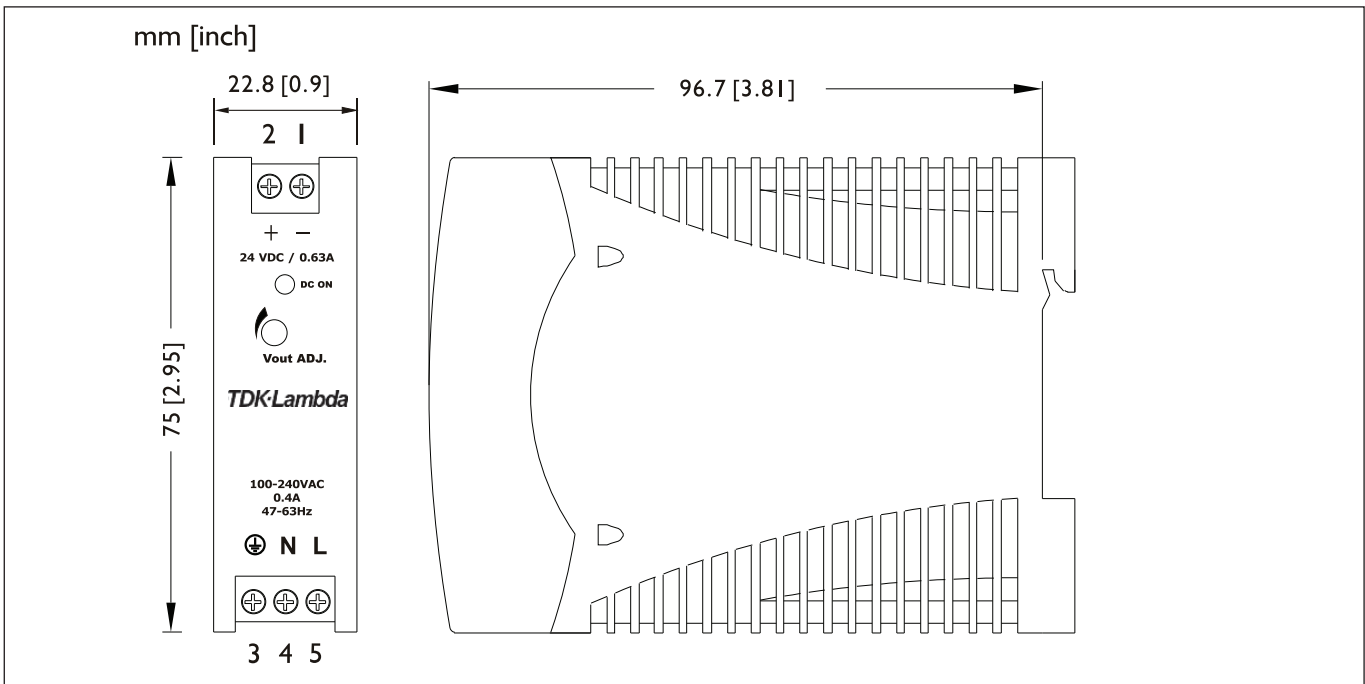
Snap-on Mounting - snap onto DIN Rail TS35/7.5 or TS35/15 (no tools required)

Cooling - Normal Convection

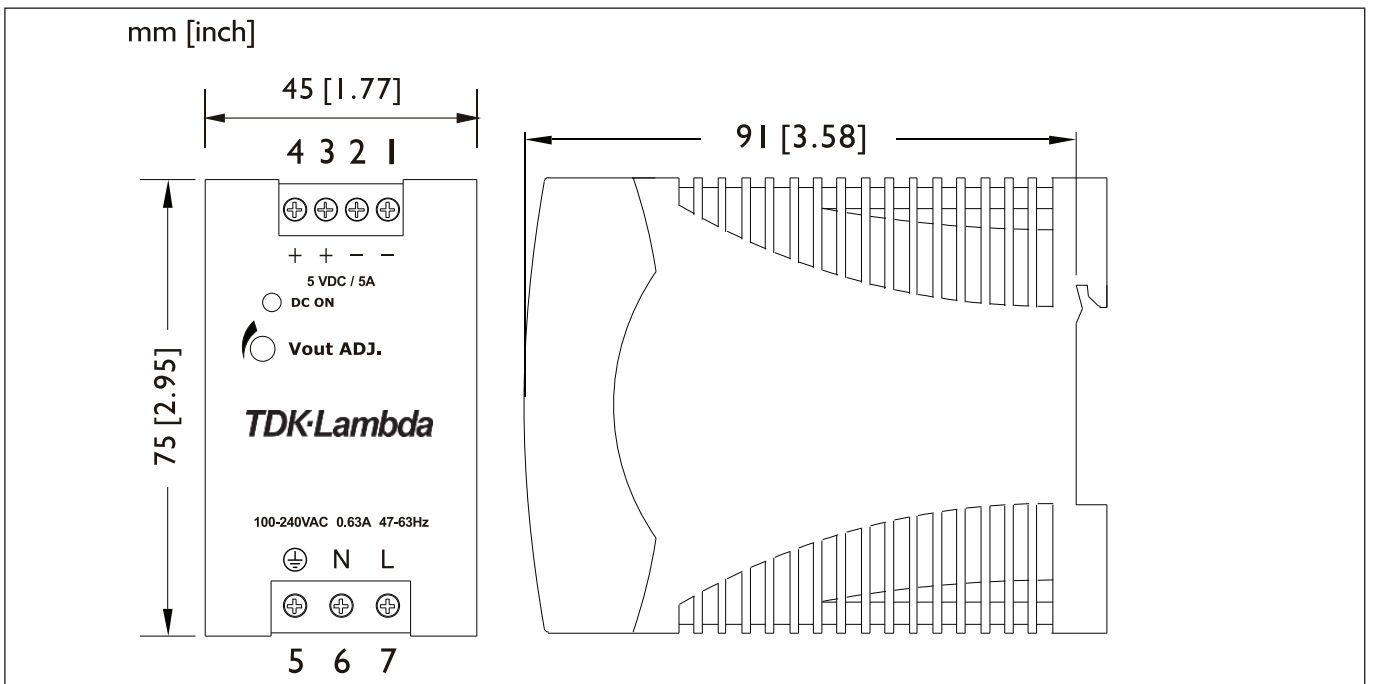
Clearance - 25mm all sides

Connection - Use copper wire 0.5-2.5mm<sup>2</sup> (AWG24-12)

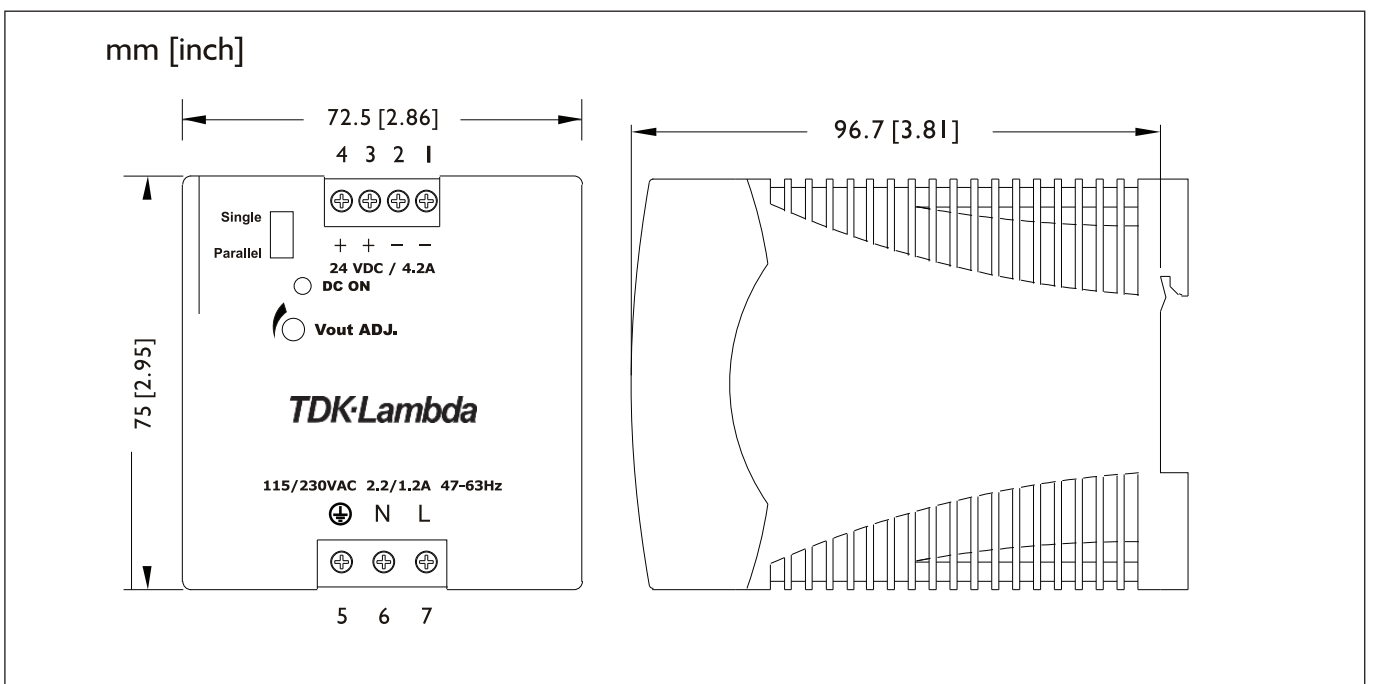
**Outline Drawing DPP15 Series**



## Outline Drawing DPP25-DPP50 Series



## Outline Drawing DPP100 Series





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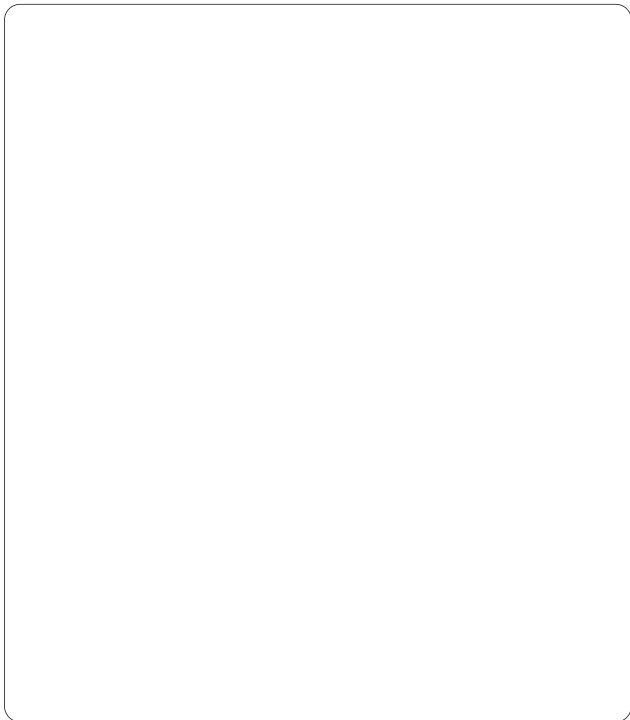
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