

Технические характеристики на источники питания AC/DC серии DPP

По вопросам продаж и поддержки обращайтесь:

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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
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 ² /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 ⁽³⁾ (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

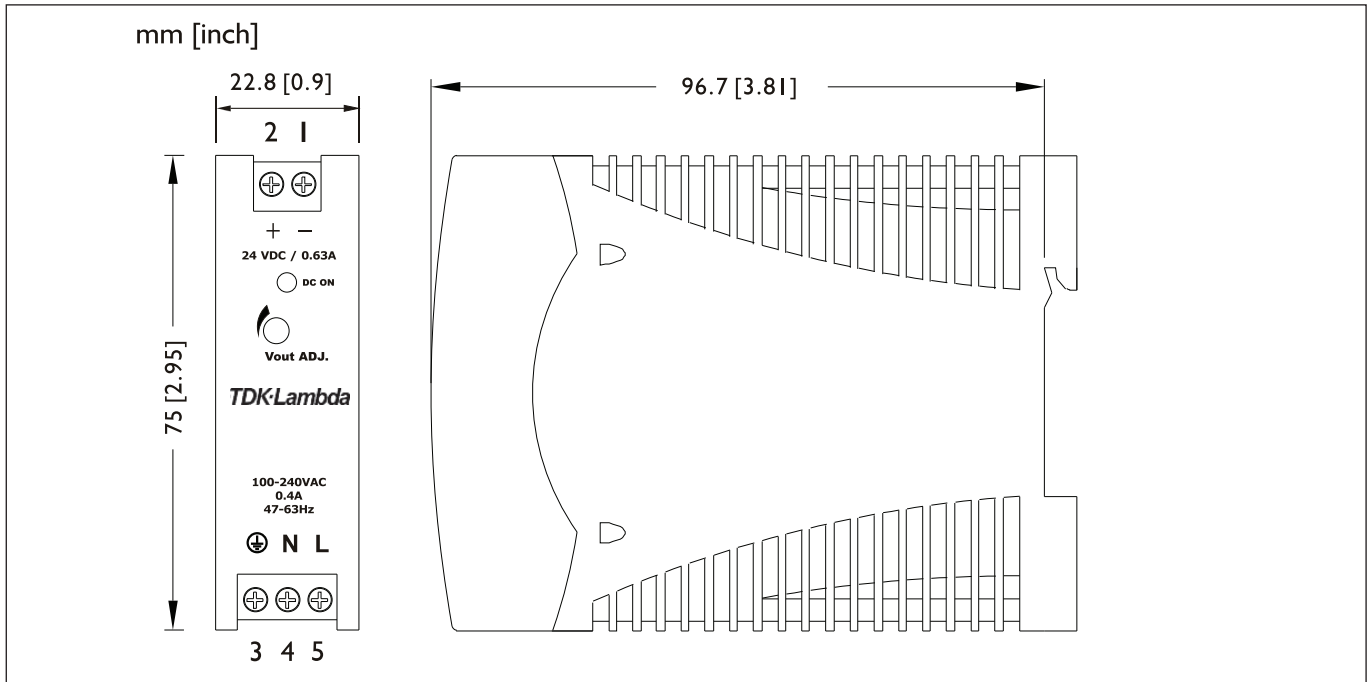
Snap-on Mounting - snap onto DIN Rail TS35/7.5 or TS35/15 (no tools required)

Cooling - Normal Convection

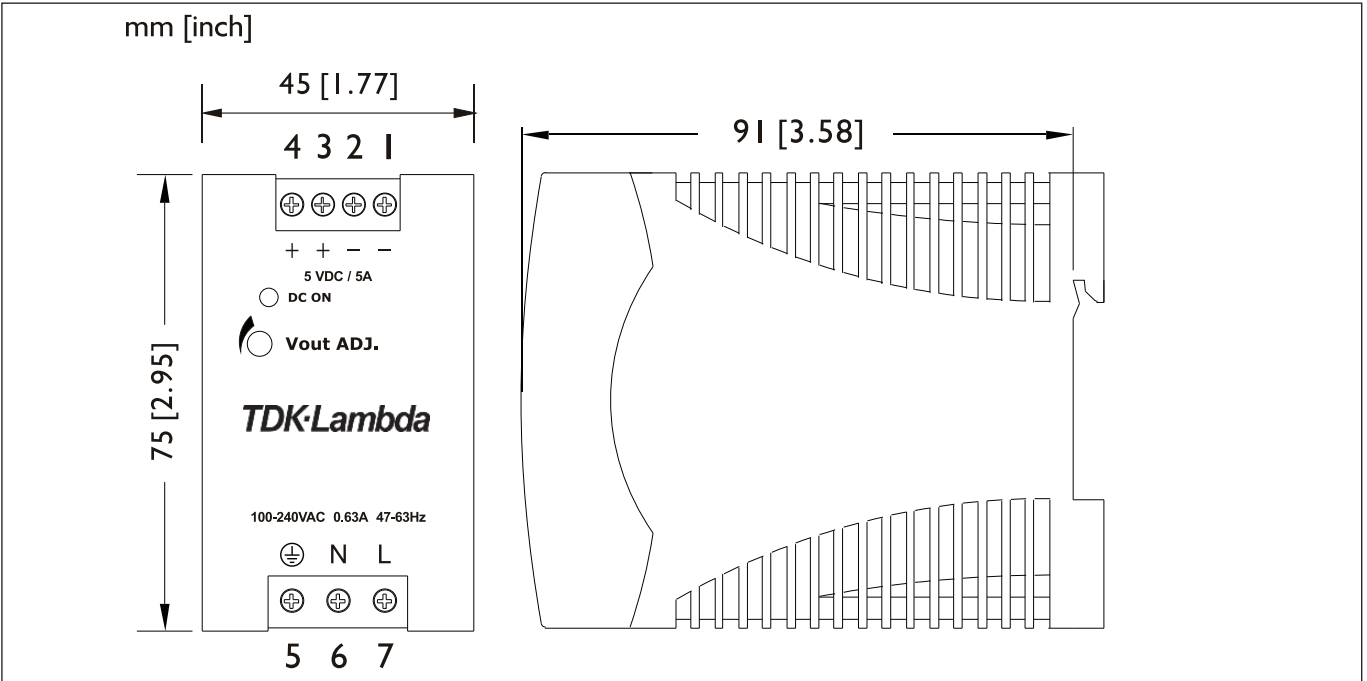
Clearance - 25mm all sides

Connection - Use copper wire 0.5-2.5mm² (AWG24-12)

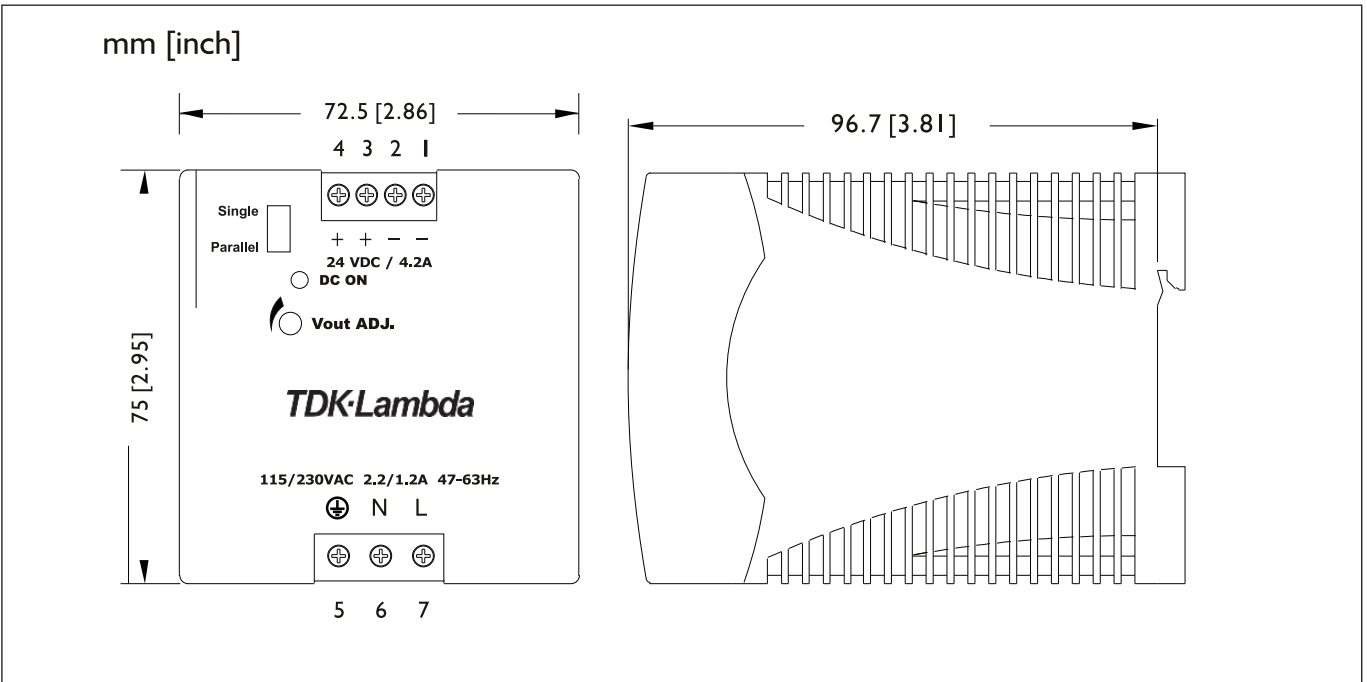
Outline Drawing DPP15 Series



Outline Drawing DPP25-DPP50 Series



Outline Drawing DPP100 Series





- Low Cost
- 12, 24 or 48V Outputs
- Wide Range AC Input
- Parallel Function Switch
- -40°C to +71°C Operation

Key Market Segments & Applications

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

DPP120 & 240 Series

120W & 240W Single Output DIN Rail Mount Power Supplies

DPP120 & 240 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

MODELS		DPP120	DPP240
ITEMS			
AC Input Voltage range	VAC	90 - 132/180-264VAC (auto select)	
Input Frequency	Hz	47 - 63Hz	
DC Input Voltage range	VDC	210 - 370VDC	
Inrush Current (115 / 230VAC)	A	24/48A	30/60A
Power Factor	-	typ 0.7 at 230VAC input	
Input Current (115/230VAC)	A	2.2/0.83A	5.4/2.2A
Output Voltage	V	12 , 24 or 48V	24 or 48V
Output Voltage Accuracy	%	-0, +1% of Nominal	
Line Regulation	%	±0.5%	
Load Regulation	%	±1% Single Mode ±5% Parallel Mode	
Ripple and Noise (20MHz BW)	mV	<50mV	<100mV
Overcurrent Protection (Typ)	-	120 - 145%	
Overvoltage Protection	V	120 - 145%	
Hold Up Time (230VAC input)	ms	>30 ms	
Efficiency (typ)	%	84 - 90% (see table)	
Parallel Operation (1)	-	Up to 3 units	
LED Indicators	-	Green LED = On, Red LED = DC Output Low	
DC Good Relay (24V model only)	-	-0.3A rated normally open relay contacts, closes when output is above 17.6 - 19.4V	
Operating Temperature (2)	-	-40°C to +71°C (Derate linearly 2.5% per °C from 61°C to 71°C)	
Storage Temperature	-	-40°C to +85°C	
Operating Humidity	-	20 - 95% RH (non condensing)	
Cooling (3)	-	Convection	
Withstand Voltage	-	Input to Output 3kVAC for 1 min.	
Isolation Resistance	Ω	>100MΩ at 25°C & 70%RH, Output to Ground 500VDC	
Vibration (Operating)		IEC 60068-2-6 (Mounting by rail: Random wave, 10-500 Hz, 2G, ea. along X, Y, Z axes 10 min/cycle, 60 min)	
Shock (Operating)		IEC 60068-2-27 (Half sine wave, 4G, 22ms, 3 axes, 6 Faces, 3 times for each face)	
Safety Agency Approvals (4)	-	UL508 Listed, UL60950-1, EN60950-1, CE	
Conducted & Radiated EMI	-	EN55022 class B	
Weight (Typ)	g	920	1000
Size (HxWxD)	mm	125 x 63.5 x 123.6	125 x 83 x 126
Case material	-	Metal	
Warranty	yrs	3	

- Notes:** (1) For parallel operations a minimum 10% load is required - loading conditions 0.1Io min to 0.9Io max
(2) DPP120 -35°C
(3) Recommend 1° clearance on all sides
(4) Consult Sales Office for use under DC Input conditions

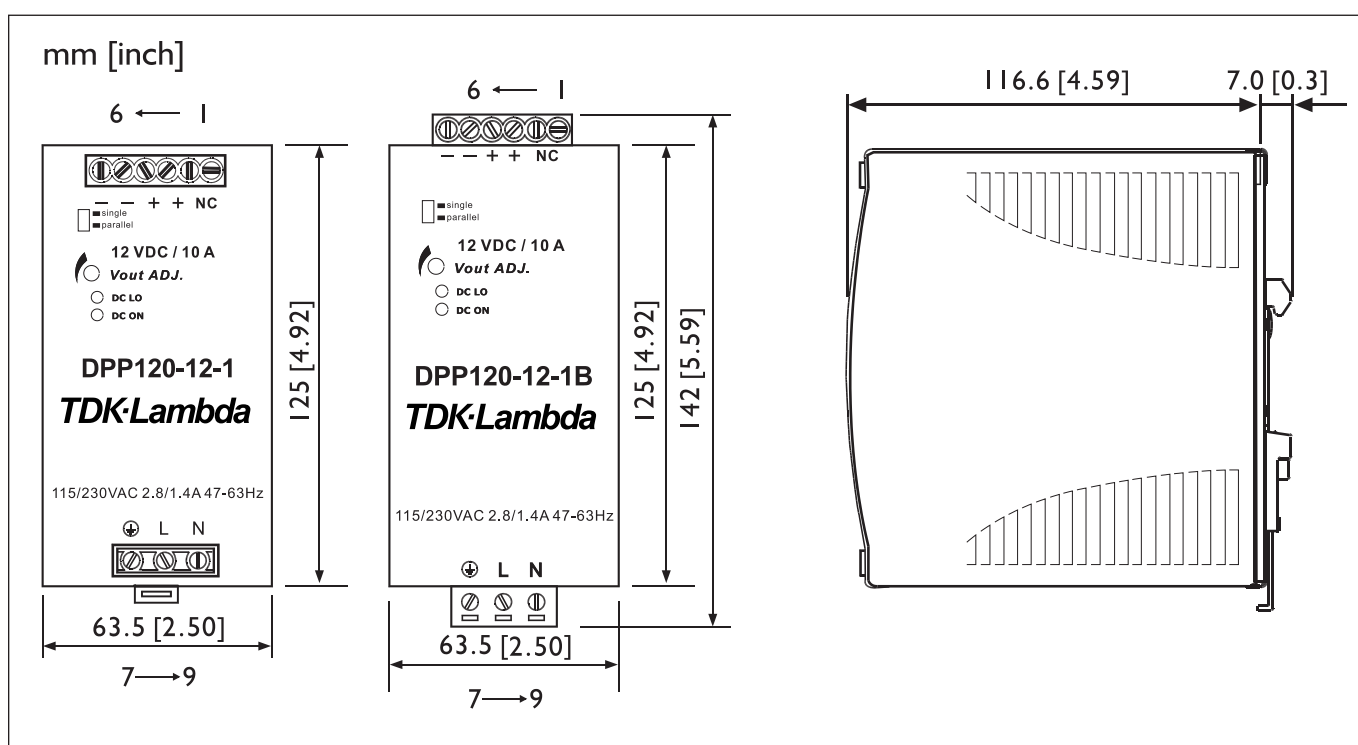
Model Selector					
Model	Voltage (V)	Voltage Adjust (V)	Current (A)	Power (W)	Effic. (typ) %
DPP120-12	12	11.4 - 14.5	10	120	84
DPP120-24	24	22.5 - 28.5	5	120	86
DPP120-48	48	45 - 55	2.5	120	87
DPP240-24	24	22.5 - 28.5	10	240	89
DPP240-48	48	47 - 56	5	240	90

For plug type connectors add suffix 'B' to part number

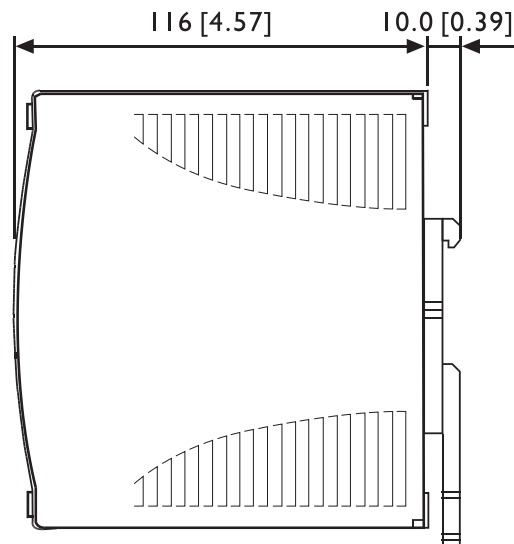
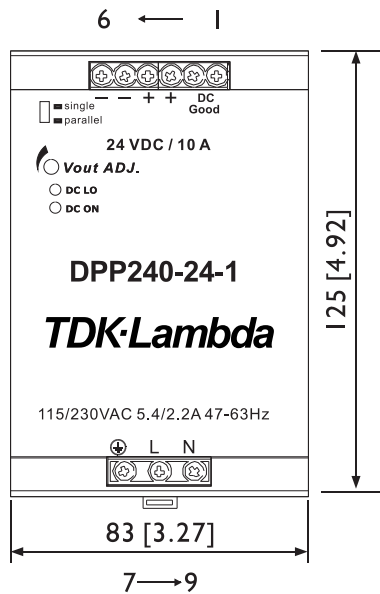
PIN Assignments	
Pin#	Function
1	DC Good Relay
2	DC Good Relay
3	V+
4	V+
5	V-
6	V-
7	GND
8	L
9	N

Options	
Suffix	Description
Blank	Non detachable connector
B	Detachable input & output connector

Outline Drawing DPP120



mm [inch]



DPP480 Series

480W Single Output
DIN Rail Mount Power Supplies

- Low Cost
- 24 or 48V Outputs
- Wide Range AC Input
- Active PFC
- Parallel Function Switch
- -40°C to +71°C Operation

Key Market Segments & Applications

Key Market Segments & Applications

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

DPP480 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	DPP480-24-1	DPP480-48-1
AC Input Voltage range	VAC		90 - 264VAC	
Input Frequency	Hz		47 - 63Hz	
DC Input Voltage range	VDC		120 - 370VDC	
Inrush Current (115 / 230VAC)	A		25 / 50A	
Power Factor	-		Meets EN61000-3-2 Class A, typ 0.99 at 230VAC input	
Input Current (115/230VAC)	A		7 / 3.5A	
Output Voltage	V		24V	48V
Output Current	A		20A	10A
Output Voltage Adjustment Range	-		22.5 - 28.5V	47 - 56V
Output Voltage Accuracy	%		-0, +1% of Nominal	
Line Regulation	%		±0.5%	
Load Regulation	%		±0.5% (±5% when set in parallel mode)	
Ripple and Noise (20MHz BW)	mV		100mV	
Overcurrent Protection (Typ)	-		120 - 140%	
Overvoltage Protection	V		30 - 33V	57 - 63V
Hold Up Time (115VAC input)	ms		> 30ms	
Efficiency (typ)	%		89%	90%
Parallel operation	-		Set in single or parallel (droop) mode - maximum of 3 units	
LED Indicators	-		Green LED = On, Red LED = DC Output Low	
DC Good Relay (24V model only)	-		0.3A rated normally open relay contacts, closes when output is above 17.6 - 19.4V	
Operating Temperature	--		-40°C to +71°C (Derate linearly 2.5%/°C from 56°C to 71°C) ⁽²⁾	
Storage Temperature	-		-40°C to +85°C	
Operating Humidity	-		20 - 95% RH (non condensing)	
Cooling	(1)		Convection	
Withstand Voltage	-		Input to Output 3kVAC for 1 min.	
Isolation Resistance	Ω		>100MΩ at 25°C & 70%RH, Output to Ground 500VDC	
Safety Agency Approvals	(2)		UL508 Listed, UL60950-1, EN60950-1, CE	
Conducted & Radiated EMI	-		EN55022 class B	
Weight (Typ)	g		1920g	
Size (WxHxD)	mm		175 x 125 x 123	
Case material	-		Metal	
Warranty	yrs		3	

Notes:

(1) Recommend 1" clearance on all sides (2) 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 (%)
DPP480-24-1	24	22.5 - 28.5	20	480	89
DPP480-48-1	48	47.0 - 56.0	10	480	90

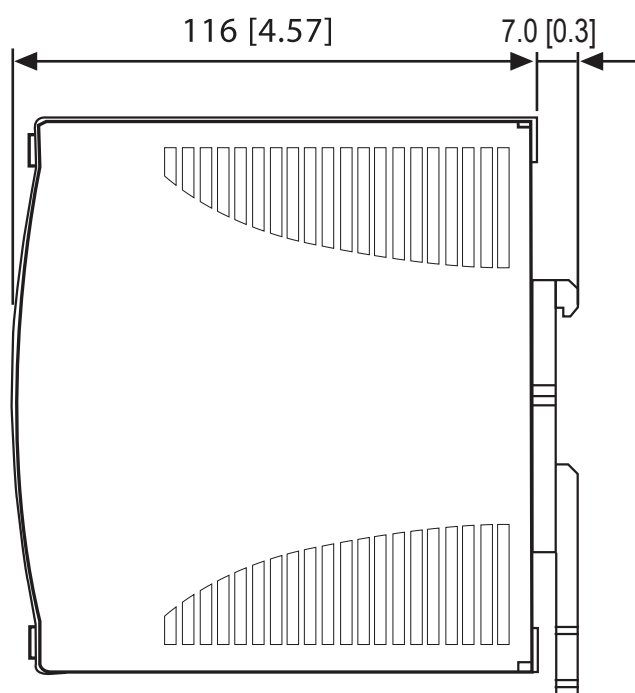
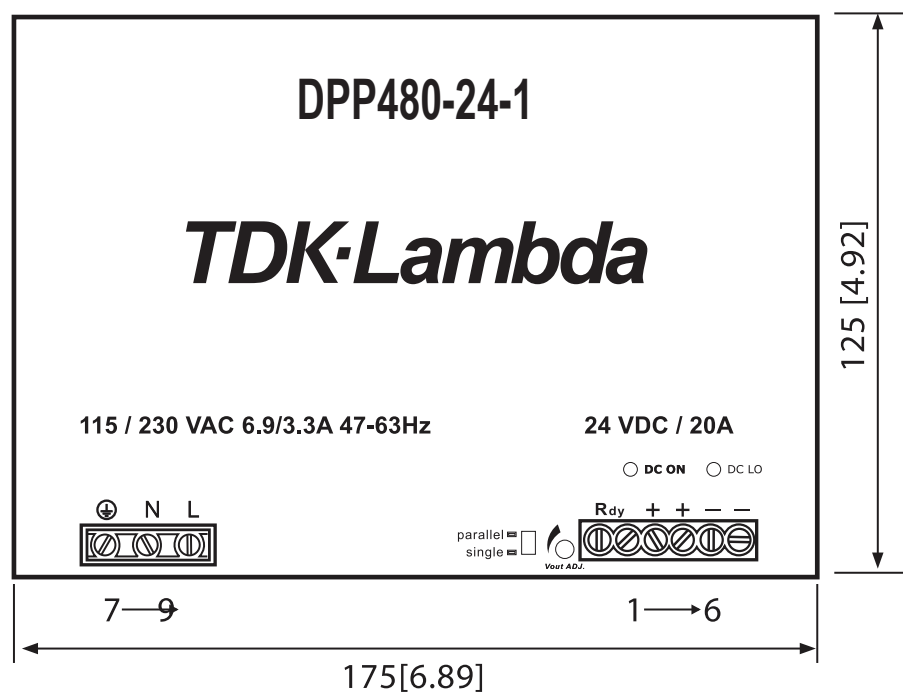
For plug type connectors add suffix 'B' to part number

PIN Assignments

Pin#	Function
1	DC Good Relay
2	DC Good Relay
3	V+
4	V+
5	V-
6	V-
7	GND
8	N
9	L

Outline Drawing DPP480 Series

Dimensions are in millimeters (inches)



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