TDK·Lambda

DPP480 Series

480W Single Output DIN Rail Mount Power Supplies

Features

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

Specifications

Key Market Segments & Applications







Specifications			
Model		DPP480-xx-1	
AC Input Voltage range	VAC	90 - 264VAC, single phase	
Input Frequency		47 - 63Hz	
DC Input Voltage range	VDC	120 - 370VDC*	
Inrush Current	Α	25 / 50A (115 / 230VAC)	
Power Factor	-	Meets EN61000-3-2 Class A	
Input Current	Α	6.9 / 3.3A (115 / 230VAC)	
Output Voltage Accuracy	%	-0, +1% of Nominal	
Line Regulation	%	±0.5%	
Load Regulation	%	±1% (±5% when set in parallel mode)	
Ripple and Noise (20MHz BW)	mV	100mV	
Overcurrent Protection (Typ)	-	110 - 140%	
Overvoltage Protection	V	See model selector	
Overtemperature Protection	-	<u>-</u>	
Hold Up Time (115VAC input)	ms	> 35ms	
Parallel operation		Set in parallel (droop) mode - maximum of 3	
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	°C	-40 to +71°C	
		(Derate linearly 2.5%/°C from 56 to 71°C)	
Storage Temperature	°C	-40 to +85°C	
Operating Humidity	-	20 - 95% RH (non condensing)	
Cooling (1)	-	Convection	
Withstand Voltage	-	Input to Output 3kVAC for 1 min.	
Isolation Resistance	-	>100M 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		UL508 Listed, UL60950-1, EN60950-1, CE	
Conducted & Radiated EMI		EN55022 class B	
Immunity	-	IEC 61000-4-2, -3, 4, -5, -68, -11	
Weight (Typ)	g	1800g	
Size (LxWxH) n		116 x 175 x 125mm	
Size (LxWxH) in		4.57 x 6.89 x 4.92"	
Case material			
Warranty yrs Three years		Three years	

(1) Recommend 1" clearance on all sides

*Safety certified for AC input only

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Model Voltage Adjust. Range Output Curr. Over- voltage Eff. DPP480-24-1 24V 22.5 - 28.5V 20A 30 - 33V 89% DPP480-48-1 48V 47 - 56V 10A 57 - 63V 90% Outline Drawing (DPP480-24-1) mm [inch] Imm [inch	Mod	el S	elect	or			
DPP480-24-1 24V 22.5 - 28.5V 20A 30 - 33V 89% DPP480-48-1 48V 47 - 56V 10A 57 - 63V 90% Outline Drawing (DPP480-24-1) mm [inch] DPP480 LAMBDA A	Model		Voltago				E#
DPP480-48-1 48V 47 - 56V 10A 57 - 63V 90% Outline Drawing (DPP480-24-1) mm [inch] $\begin{array}{c c c c c c c c c c c c c c c c c c c $)-24-1					
mm [inch] DPP480 $IS / 20 VAC 6.9/3.3A 47-63Hz 24 VDC / 20A$ $IS / 20 VAC 6.9/3.3A 47-63Hz 24 VDC / 20A$ $IT / 0 = 0 = 0$							
mm [inch] DPP480 $IS / 20 VAC 6.9/3.3A 47-63Hz 24 VDC / 20A$ $IS / 20 VAC 6.9/3.3A 47-63Hz 24 VDC / 20A$ $IT / 0 = 0 = 0$							
	Outl	ine	Draw	ing (DPP	480-2	4-1)	
		mm [i	inch]				
$\begin{array}{c} 115 / 230 \text{ VAC } 6.9 / 3.3A 47-63Hz \\ 115 / 230 \text{ VAC } 6.9 / 3.3A 47-63Hz \\ \hline \\ $		DF	P480				
115/230 VAC 6.9/3.3A 47-63Hz $24 VDC / 20A$ $0 Were Original origina$		LA	I <i>MBD</i>			5 [4.92]	
$7 \rightarrow 9 \qquad 1 \rightarrow 6$ $175[6.89]$				3.3A 47 - 63Hz	O DC ON		
				parallel single			
		7	→9		1→6	5	
		•		175[6.89]		→	
				116 [4.57]	10.0 [0.39]	
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Accepts TS35/7.5 or TS35/15 DIN Rails							
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		Aco	cepts TS	35/7.5 or T	635/15 D	IN Rails	

DPP480 Series

# DPP480-xx-1 1 DC Good relay 2 DC Good relay 3 +V 4 +V 5 -V 6 -V 7 Chassis ground 8 N 9 L 10 No connection	Terminal Assignments		
2 DC Good relay 3 +V 4 +V 5 -V 6 -V 7 Chassis ground 8 N 9 L	#	DPP480-xx-1	
3 +V 4 +V 5 -V 6 -V 7 Chassis ground 8 N 9 L	1	DC Good relay	
4 +V 5 -V 6 -V 7 Chassis ground 8 N 9 L	2	DC Good relay	
5 -V 6 -V 7 Chassis ground 8 N 9 L	3	+V	
6 -V 7 Chassis ground 8 N 9 L	4	+V	
7 Chassis ground 8 N 9 L	5	-V	
8 N 9 L	6	-V	
9 L	7	Chassis ground	
	8	N	
10 No connection	9	L	
	10	No connection	

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

Options	
Suffix	Description
Blank	Non detachable connectors
В	Detachable input and output connectors

Other Industrial Products

DPP/DSP	10W to 960W, 5V to 48V power supplies
DLP	75W to 240W power supplies
DLP-PU	Redundancy Module (20A)
R Series	6A to 1000A single & three phase EMI Filters

For Additional Information, please visit https://product.tdk.com/info/en/products/power/index.html

