15-100W, 5-48V Output DIN Rail Mount Power Supplies

Features

- ◆ Low Cost
- ◆ Universal Input
- ◆ NEC NFPA70 Class 2(2)
- ◆ UL508 Listed
- ◆ Class 1, Division 2 (ISA 12.12)⁽³⁾
- ◆ -10 to +71°C Operation

Key Market Segments & Applications





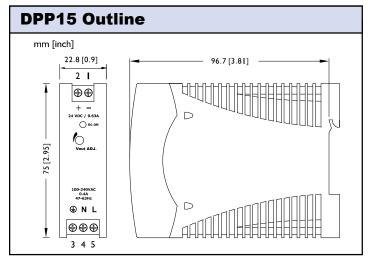


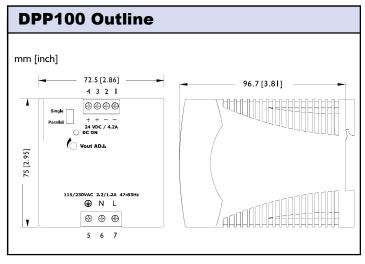
Specifications						
Model		DPP15	DPP25/30	DPP50	DPP100	
AC Input Voltage range	VAC		85 - 264VAC		85 - 132VAC 176 - 264VAC	
Input Frequency	Hz		47 - 6	63Hz	I	
DC Input Voltage range	-	90 - 375VDC* 210 - 375VDC*				
Inrush Current (115 / 230VAC)	Α	<35A 35 / 45A 35 / 50A 35 / 55				
Power Factor	-	Meets EN61000-3-2 Class A				
Input Current (230VAC)	Α	0.25	0.4	0.7	1.2	
Leakage Current	mA	<0.75mA, 265VAC, 63Hz				
Output Voltage Accuracy	%	±1% (24V outputs preset at 24.5V)				
Line Regulation	%	< 0.5%				
Load Regulation	%		< 0.	5%		
Ripple and Noise	mV	50mV				
Overcurrent Protection (Typ)	-	>110% (fold forward type)				
Overvoltage Protection	V	120 - 137.5%				
Hold Up Time (115VAC input)	ms	> 20ms				
Parallel switch	-	No Yes				
LED Indicator	-	Green LED = On				
Operating Temperature	°C	-10* to +71°C (Derate linearly 5%/°C from 61 to 71°C) * -25°C start up, DPP25-50 only				
Storage Temperature	°C	-25 to +85°C				
Operating Humidity	-	20 - 90% RH (non condensing)				
Cooling (1)	-	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, 1 Grms acceleration X, Y, Z, 1 hour				
Isolation Resistance	-	>100M at 25C & 70%RH, Output to Ground 500VDC				
Safety Agency Approvals	-	UL60950-1, UL508, NEC Class 2 ⁽²⁾ , EN60950-1, CE Mark, ISA 12.12 ⁽³⁾				
Emissions	-	EN55011, EN55022 class B Radiated & Conducted, EN61000-6-3				
Immunity	-	EN61000-6-2, EN61000-4-2 Level 4, EN61000-4-3, EN61000-4-6 Level 3,				
		EN61000-4-4 Level 4 (I/P) Level 3 (O/P), EN61000-4-5 Level 3,				
	EN61000-4-8, EN61000-4-11					
Weight (Typ)	g	130 260		390		
Size (LxWxH)	mm	96.8 x 22.9 x 75mm	5mm 91 x 45 x 75mm		96.8 x 72.6 x 75mm	
Size (LxWxH)	in	3.81 x 0.9 x 2.95"	3.58 x 1.77 x 2.95" 3.81		3.81 x 2.86 x 2.95"	
Case material	-		Flame Retardant Poly	carbonate (UL94 V-0		
MTBF (MIL-HDBK-217F, GF25)	Hours	287,000	>288,000	269,000	239,000	
Warranty	yrs	Three years				

- (1) Recommend 1" clearance on all sides.
- (2) See model selector. Evaluated to NEC NFPA70 Class 2 output per UL1310.
- (3) See model selector.

*Safety certified for AC input only

Model Selector								
Model	Voltage (V)	Voltage Adjust (V)	Current (A)	Power (W)	Effic. (typ) %	UL1310 Class 2	ISA12.12 Class 1 Div 2	
DPP25-5	5	5-6	5.0	25	78	-	Yes	
DPP30-12	12	9.9-12.1	2.5	30	83	Yes	Yes	
DPP50-15	15	11.9-15.1	3.4	50	85	Yes	Yes	
DPP15-24	24	22.5-28.5	0.63	15	81	Yes	-	
DPP30-24	24	22.5-28.5	1.3	30	84	Yes	Yes	
DPP50-24	24	22.5-28.5	2.1	50	86	Yes	Yes	
DPP100-24	24	22.5-28.5	4.2	100	87	-	-	
DPP50-48	48	48-56	1.05	50	87	Yes	Yes	





DPP25-DPP50 Outline mm [inch] 45 [1.77] 4 3 2 1 4 3 2 1 5 voc / SA Dc ON Vout ADJ. 100-240VAC 0.83A 47-43Hz N L S S 6 7

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)

Other DIN Rail Products				
DSP/DPP	10W to 480W power supplies			
DLP	75W to 240W power supplies			
DLP-PU	Redundancy Module (20A)			
R Series	3A to 30A single & three phase EMI Filters			

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

