



DP248 2 Outputs DIN Rail Power Supply, 240 W

The DP248 power supply is for DIN-rail applications and has a high power density: with a width of only 120mm it produces 240W output power. The two **outputs** (5V/8A and 24V/9A) are regulated **independently** and are completely isolated from one another. Even if the 24V output is shorted, the 5V output remains fully functional. The unit behaves like two separate power supplies in one case. If required the unit can also be delivered with a voltage other than 5V for output 2.



Input		Schematic			
Input voltage	115/230 VAC (user selectable) 47...63 Hz				
Input current	6 A at 110 V 2.8 A at 230 V				
In-rush current	max 50 A at 264 VAC				
In-rush current limiting	NTC thermistor				
Transient immunity	730 V für 1.3 ms (VDE0160/W2)				
Hold-up time	min. 30 ms at 230 V				
Output					
Output	U Output voltage	I, P Output power	Ripple (20Hz...200kHz)	incl. Spikes (0...20 MHz)	
• 24 V	24 V ± 3%	9 A (216 W)	30 mV _{pp}	50 mV _{pp}	
• 5 V	5.1 V ± 3%	8 A (40 W)	20 mV _{pp}	40 mV _{pp}	
Notes:	<ul style="list-style-type: none"> • Over-voltage protection: typ. 6.2 V ± 8 % • 5 V output independently regulated • P_{total} = 240 W • Operating temperature range: T_{AMB} = -10°C ... +55°C • Separate current limiting for 5 V output • No minimum load required • Current limit threshold is 105...125 % (5V) resp. 105...170% (24V) rated current • Derating: 6 W/K from 55°C...70 °C 				
Accuracy	± 3% for everything (line, load, temperature, voltage adjustment, ripple)				
Operating indicator	1 LED for each output on the front				
EMC		Mechanics			
Emissions	EN 50081-1	Dimensions			
• Radio interference	EN 55022, Class B	<ul style="list-style-type: none"> • Width 120 mm • Height 134 mm • Depth 120 mm (incl. snap-mounting provision) 			
Immunity	EN 50082-2	Weight			
• Static discharge ESD	EN 61000-4-2	ca. 1150 g			
• Radiated fields	ENV 50140	Housing			
• Burst	EN 61000-4-4	Aluminium case from AlMg ₃ , completely enclosed. Snap-on mounting on DIN Rail TS35/7.5 /EN 50022)			
• Surge	IEC 1000-4-5	Connections			
• Conducted disturb.	ENV 50141	<ul style="list-style-type: none"> • Input 1 terminal each • Output 2 terminals each 			
Transient immunity	see input specs	} ∅ max. 4 mm ² hard core or 2.5 multi core flex			

DP248k-971215