

# › Industrial Power Supply IPS12

- › Industrial 12 V $\overline{\text{DC}}$  Power Supplies range from 60 to 216 W
- › High Efficiency, up to 87% @ 230 V $\sim$
- › DIN Rail Mount
- › UL & CE Certifications



Selection Guide			
Nominal Output Voltage	Maximum Output Power	Maximum Output Current	Part Number
12 V $\overline{\text{DC}}$	60 W	5 A	<b>89 452 061</b>
	96 W	8 A	<b>89 452 121</b>
	216 W	18 A	<b>89 452 241</b>

	12 V $\overline{\text{DC}}$ 60 W	12 V $\overline{\text{DC}}$ 96 W	12 V $\overline{\text{DC}}$ 216 W
<b>General Characteristics</b>			
Part Number	<b>89 452 061</b>	<b>89 452 121</b>	<b>89 452 241</b>
Product Certification	CE, UKCA, UL		
Line Dip (200~240 V $\sim$ )	Voltage Dips & Interruptions. IEC 61000-4-11 Criteria A & B		
Protection against Radio Interference	CE: CISPR11-A; RE: CISPR22-A		
Emission	EN 61000-3-2		
Power Factor & Harmonic Correction (PFHC)	IEC 61000-3-2		
Power Supply Earthing	Available		
Isolation Class / Class of Protection	Class I		
Pollution	Degree 2, Group II b		
Operating Altitude	2000 m		
Vibration	Component: 10 ~ 500 Hz, 2G 10min/1cycle, period for 60 min, each along X, Y, Z axes		
Shock (In package)	Non-Operations Vibration, 10~500 Hz 2G 10 Min/1 Cycle Period for 60 Min each along X, Y, Z axes		
Immunity	EN 61000-4-2 (Level 4 & 3) EN 61000-4-3 (Level 3) EN 61000-4-4 (Level 3) EN 61000-4-5 (Level 3) EN 61000-4-6 (Level 3) EN 61000-4-8 (Level 4) EN 61000-4-11 (Class 3) IEC/EN 62368-1		
Operating Temperature	-25 → +50 °C (see derating curve)		
Operating Humidity	5 → 95 % max. (No condensing)		

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## Description:

Crouzet range of DIN Rail industrial power supplies, from 60 to 216 W at 12 V $\overline{\text{DC}}$ . With its narrow width (from 43 to 50 mm max), they are designed for a wide range of industrial applications. Characterised by their wide voltage input ranges (90 to 264 V $\sim$ ), they allow the supply of single-phase mains electric power to DC power lines. With a high efficiency of up to 87 % @230 V, these new power supplies will fully satisfy the needs of 24 V $\overline{\text{DC}}$  applications.

For more information about Crouzet's Industrial Power Supply range, please visit [www.crouzet.com](http://www.crouzet.com).

	12 V $\text{---}$ 60 W	12 V $\text{---}$ 96 W	12 V $\text{---}$ 216 W
Storage Temperature	-40 °C → +85 °C		
Storage Humidity	5 → 95 % max. (No condensing)		
Cooling	Convection		
Screw Terminals Connection Capacity	AWG 12-26		
Case Colour	Grey RAL 7035		
Protection Degree	IP20		
Weight	285 g	350 g	645 g
Dimensions (mm)	43 x 109.8 x 102.7 mm		50 x 136 x 135 mm

Electrical Characteristics			
Input Voltage	90 V $\sim$ → 264 V $\sim$		
Frequency	50/60 Hz		
Nominal Output Voltage	12 V $\text{---}$		
Line Regulation	< 1 % of Vout		
Load Regulation	± 1 %		
Output Voltage Range	12 – 14 V $\text{---}$		
Input Current	1.2 A / 0.8 A (Typ. 115/230 V $\sim$ )	2.2 A / 1.5 A (Typ. 115/230 V $\sim$ )	2.4 A / 1.2 A (Typ. 115/230 V $\sim$ )
Maximum Output Current	5 A	8 A	18 A
Maximum Output Power	60 W	96 W	216 W
Inrush Current	< 48 A cold start (Typ. 264 V $\sim$ )*		< 60 A cold start (Typ. 264 V $\sim$ )*
Ripple and Noise	< 1 % of Vout		
Temperature Coefficient	NA		
No Load Input Power	<0.5 W @115 V $\sim$	<1.2 W @115 V $\sim$	<1.6 W @115 V $\sim$
Efficiency	>86 % (Typ. 230 V $\sim$ )	>89 % (Typ. 230 V $\sim$ )	>92 % (Typ. 230 V $\sim$ )
Power Factor	NA		>0.95 at full load
Hold-Up Time	≥ 60 ms at 230 V $\sim$ & ≥15 ms at 115 V $\sim$		>25 ms at 12V & >16 ms at 14V
Over-Voltage Protection	16 V $\text{---}$ ± 1 V $\text{---}$		
Over-Current Protection	>110% "Hiccup" with automatic recovery		
Upstream Protection of Power Supply	See Instruction Manual		
Withstand Voltage	I/P to Earth: 2500 V $\sim$ I/P to O/P: 4000 V $\sim$ O/P to Earth: 1500 VA		I/P to Earth: 2500 V $\sim$ I/P to O/P: 4000 V $\sim$ O/P to Earth: 1500 V $\sim$ O/P to DCOK: 500 V $\sim$
Isolation Resistance	> 100 M $\Omega$ (500 V $\text{---}$ ) @ 25 °C, 70 % RH		
Status Indication	DC OK LED (green)		
Series Operation	Possible, See Instruction Manual		
Transient Response Deviation	< 5 % (50 % to 100 % step load charge)		
Transient Response Recovery Time	Recovery to set value in <ms (50 % to 100 % step load charge)		
DC Ok Signal	N/A		Contact closes @ 23.0V (typ.) Contact opens @ 22.5V (typ.) Contact Rating: 30 V $\text{---}$ 1 A; 60 V $\text{---}$ 0.5 A; 125 V $\sim$ 0.5 A; resistive load, min current 1 mA

\* at Maximum Output Power, Ta = 25 °C

12 V $\ddot{=}$  60 W

12 V $\ddot{=}$  96 W

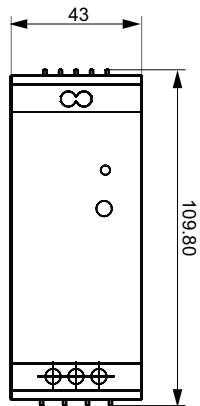
12 V $\ddot{=}$  216 W

Drawings

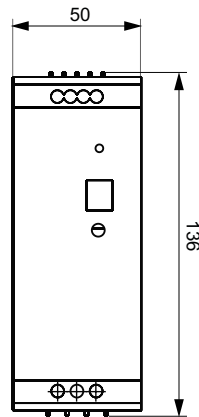
Dimensions (mm)

Front View

12 V $\ddot{=}$  60 W / 12 V $\ddot{=}$  96 W

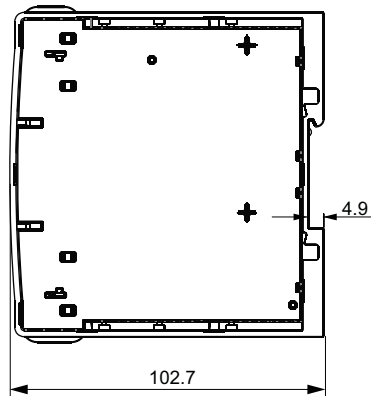


12 V $\ddot{=}$  216 W

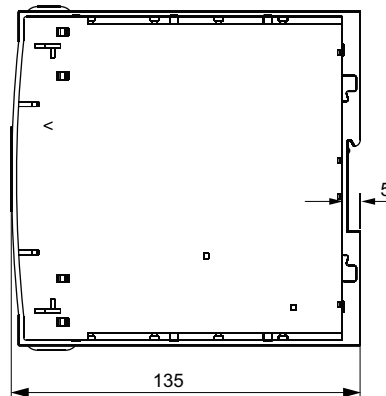


Side View

12 V $\ddot{=}$  60 W / 12 V $\ddot{=}$  96 W

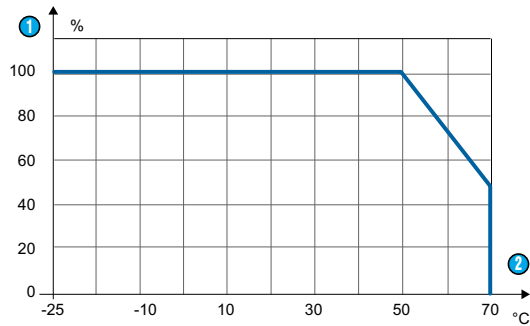


12 V $\ddot{=}$  216 W



Curves

12 V $\ddot{=}$  60 W - 96 W - 216 W



- ① Output Power (%)
- ② Ambient (°C)

Standards

UL 508 approved (E522848)

Designed to meet IEC 62368-1

Warning:

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