› Industrial Power Supply
IPS24

- › Industrial 24 V⎓ Power Supplies range from 60 to 480 W
- › High Efficiency, up to 87% @ 230 V∿
- › DIN Rail Mount
- › UL & CE Certifications

24 V⎓ 60 W

24 V⎓ 120 W

24 V⎓ 240 W

24 V⎓ 480 W

Selection Guide			
Nominal Output Voltage	**Maximum Output Power**	**Maximum Output Current**	**Part Number**
24 V⎓	60 W	2.5 A	**89 452 062**
	120 W	5 A	**89 452 122**
	240 W	10 A	**89 452 242**
	480 W	20 A	**89 452 482**

	24 V⎓ 60 W	24 V⎓ 120 W	24 V⎓ 240 W	24 V⎓ 480 W
General Characteristics				
Part Number	**89 452 062**	**89 452 122**	**89 452 242**	**89 452 482**
Product Certification	CE, UKCA, UL			
Line Dip (200~240 V∿)	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			

You have a project? Contact us on **www.crouzet.com**

Description:

Crouzet range of DIN Rail industrial power supplies, from 60 to 480 W at 24 V⎓. With its narrow width (from 43 to 60 mm max), they are designed for a wide range of industrial applications. Characterised by their wide voltage input ranges (90 to 264 V∿), 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⎓ applications.

For more information about Crouzet's Industrial Power Supply range, please visit www.crouzet.com.

	24 V⎓ 60 W	24 V⎓ 120 W	24 V⎓ 240 W	24 V⎓ 480 W
Operating Temperature	-25 → +50 °C (see derating curve)			
Operating Humidity	5 → 95 % max. (No condensing)			
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	1050 g
Dimensions (mm)	43 x 109.8 x 102.7 mm		50 x 136 x 135 mm	60 x 154 x 158.55 mm

Electrical Characteristics				
Input Voltage	90 V∿ → 264 V∿	91 V∿ → 264 V∿	92 V∿ → 264 V∿	93 V∿ → 264 V∿
Frequency	50/60 Hz			
Nominal Output Voltage	24 V⎓			
Line Regulation	< 1 % of Vout			
Load Regulation	± 1 %			
Output Voltage Range	24 – 28 V⎓			
Input Current	1.2 A / 0.8 A (Typ. 115/230 V∿)	2.2 A / 1.5 A (Typ. 115/230 V∿)	2.4 A / 1.2 A (Typ. 115/230 V∿)	4.8 A / 2.4 A (Typ. 115/230 V∿)
Maximum Output Current	2.5 A	5 A	10 A	20 A
Maximum Output Power	60 W	120 W	240 W	480 W
Inrush Current	< 48 A cold start (Typ. 264 V∿)*		< 60 A cold start (Typ. 264 V∿)*	
Ripple and Noise	< 1 % of Vout			
Temperature Coefficient	NA			
No Load Input Power	<1.2 W @115 V∿	<1.2 W @115 V∿	<1.7 W @115 V∿	<2.3 W @115 V∿
Efficiency	>87 % (Typ. 230 V∿)	>89 % (Typ. 230 V∿)	>93 % (Typ. 230 V∿)	>93.5 % (Typ. 230 V∿)
Power Factor	NA		>0.95 at full load	
Hold-Up Time	≥ 60 ms at 230 V∿ & ≥15 ms at 115 V∿		>25 ms at 12 V & >16 ms at 14 V	>20 ms at 24 V & >12 ms at 28 V
Over-Voltage Protection	31 V⎓ ± 1 V⎓		31 V⎓ ± 0.5 V⎓	
Over-Current Protection	> 110 % "Hiccup" with automatic recovery			
Upstream Protection of Power Supply	See Instruction Manual (Confirm the Concept of Upstream)			
Withstand Voltage	I/P to Earth: 2500 V∿ I/P to O/P: 4000 V∿ O/P to Earth: 1500 V∿	I/P to Earth: 2500 V∿ I/P to O/P: 4000 V∿ O/P to Earth: 1500 V∿	I/P to Earth: 2500 V∿ I/P to O/P: 4000 V∿ O/P to Earth: 1500 V∿ O/P to DCOK: 500 V∿	I/P to Earth: 2500 V∿ I/P to O/P: 4000 V∿ O/P to Earth: 1500 V∿
Isolation Resistance	> 100 MΩ (500 V⎓) @ 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⎓ 1 A; 60 V⎓ 0.5 A; 125 V∿ 0.5 A; resistive load, min current 1 mA	

* at Maximum Output Power, Ta = 25 °C

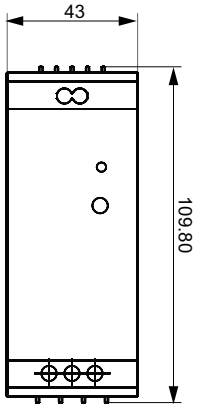
	24 V⎓ 60 W	24 V⎓ 120 W	24 V⎓ 240 W	24 V⎓ 480 W

Drawings

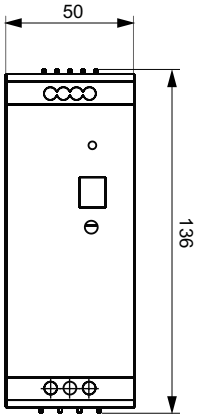
Dimensions (mm)

Front View

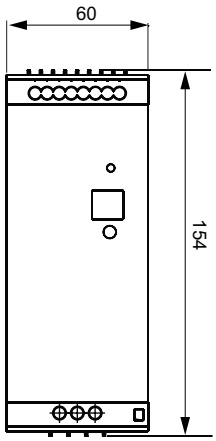
24 V⎓ 60 W / 24 V⎓ 120 W



24 V⎓ 240 W

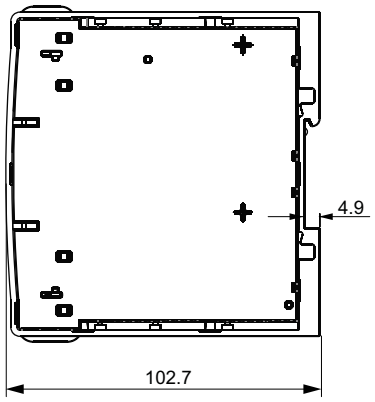


24 V⎓ 480 W

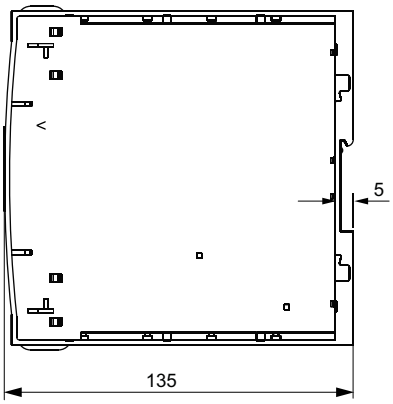


Side View

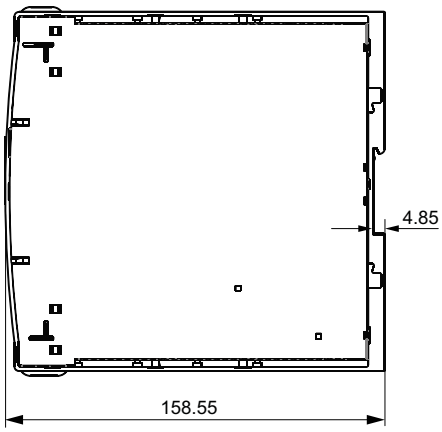
24 V⎓ 60 W / 24 V⎓ 120 W



24 V⎓ 240 W

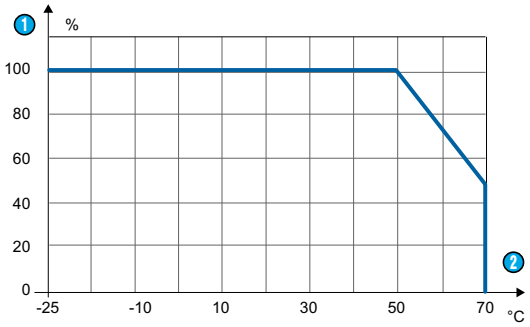


24 V⎓ 480 W



Curves

24 V⎓ 60 W - 120 W - 240 W - 480 W



1 Output Power (%)
2 Ambiant (°C)

Standards

UL 508 approved (E522848)

Designed to meet IEC 62368-1