

› em4

Accessories

Modular power supplies

- › Switch mode power supply regulated and protected against overloads and short-circuits, easy to integrate into switchboards and enclosures
- › The potentiometer can be used to set the output voltage between 100 and 120 % to compensate for any voltage drops on the line
- › The LED continuously signals the presence of voltage at the output and, when flashing, triggering of the self protection
- › Broad range of supply voltage
- › Isolating source



7.5 W power supply



20 W power supply



60 W power supply

Specific characteristics				
Designation	Nominal output voltage	Nominal power	Nominal output current	Code
Modular power supply	5 V $\overline{\text{---}}$ (4.75 V $\rightarrow$ 6.25 V)	20 W	4 A	88 950 305
Modular power supply	12 V $\overline{\text{---}}$ (11.4 V $\rightarrow$ 15 V)	25 W	2.1 A	88 950 306
Modular power supply	24 V $\overline{\text{---}}$ (22.8 V $\rightarrow$ 28.8 V)	7.5 W	0.3 A	88 950 303
Modular power supply	24 V $\overline{\text{---}}$ (22.8 V $\rightarrow$ 28.8 V)	15 W	0.6 A	88 950 304
Modular power supply	24 V $\overline{\text{---}}$ (22.8 V $\rightarrow$ 28.8 V)	30 W	1.2 A	88 950 307
Modular power supply	24 V $\overline{\text{---}}$ (22.8 V $\rightarrow$ 28.8 V)	60 W	2.5 A	88 950 302

General characteristics	
Environmental characteristics	
Conformity to standards	IEC/EN 60950-1 IEC/EN 61000-6-2 IEC/EN 61000-6-3 IEC/EN 61204-3 IEC/EN 60364-4-41 – SELV: Safety Extra Low Voltage EN 55022 (CISPR22)
Certifications	CE, UL, CSA, TÜV
Emission	Harmonic: IEC/EN 61000-3-2
Operating temperature	-25 $\rightarrow$ +55 °C
Storage temperature (°C)	-40 $\rightarrow$ +70 °C
Protection class	Class 2 (Isolating source)
Electrical characteristics	
Input voltage	100 $\rightarrow$ 240 V a single-phase (-15 %/+10 %)
Supply frequency range	50/60 Hz (+4 % / -6 %) or 47 $\rightarrow$ 53 Hz/57 $\rightarrow$ 63 Hz
Output voltage	Adjustable from 100 $\rightarrow$ 120 %
Peak current on energisation	< 20 A (Except for 88950302: < 90 A during 1 ms)
Regulation of line and load	$\pm$ 3 %
Immunity from micro power cuts	< 10 ms (100 V a) < 150 ms (230 V a)
Thermal protection	Yes
Technology	Primary switch mode electronic power supplies
Short-circuit protection	Yes
Overload protection	Yes

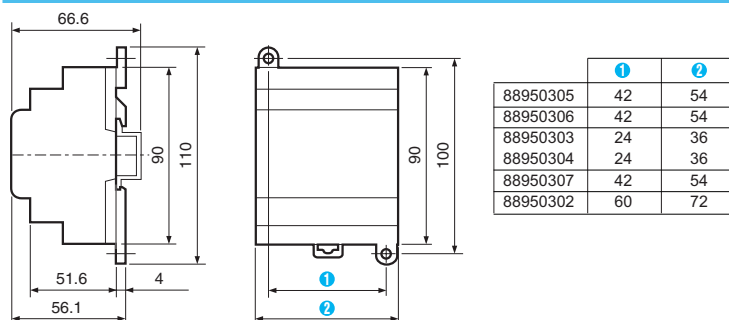
Primary protection	Fuse gG 2 A or circuit breaker 2 A curve D for 88950303, 88950304, 88950305, 88950306, 88950307 Fuse gG 3 A or circuit breaker 3 A curve D for 88950302
Reset after overload	Automatic
Dielectric strength	Input/output 3000 VAC/50 Hz/1 mn
Status indication	LED at the output

Mechanical characteristics

Mounting	On section, 35 x 7.5 mm and 35 x 15 mm or on panel (2 x Ø4 mm)
Screw terminals connection capacity	Input connection 2 x 0.14 → 2.5 mm ² (AWG 26 → AWG 14) Output connection 1 x 0.14 → 2.5 mm ² (AWG 26 → AWG 14)

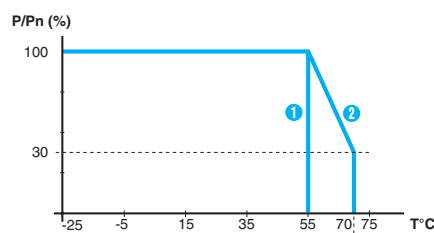
Diagrams

Dimensions (mm)



Curves

Derating



The ambient operating temperature of the power supplies is 55 °C. Above this, a derating is needed up to a maximum operating temperature of 70 °C. The chart below shows the power (compared to the nominal power) that can be permanently supplied by the power supply depending on the operating temperature.

① 88 950 302

② 88 950 30x