

Regulated power supplies

→ "Millenium Supply" switch mode power supply

- Electronic and regulated
- 85 to 264 VAC input
- Conforms to global standards
- Incorporated thermal protection
- PFC filter option



89450

Part numbers

Type	Input voltage (V)	Output voltage (V)	Nominal power	Nominal current	Reset on protection	Conforms to EN 61000-3-2	Weight (kg)	Code
89450 without PFC	100 → 240 V ~	12 V ---	60 W	5 A	Automatic	No	0.44	89450110
	100 → 240 V ~	24 V ---	60 W	2.5 A	Automatic	No	0.44	89450210
	100 → 240 V ~	24 V ---	100 W	4.2 A	Automatic	No	0.64	89450221
	115 / 230 V ~	24 V ---	150 W	6.2 A	Automatic	No	0.73	89450231
	115 / 230 V ~	24 V ---	240 W	10 A	Automatic	No	1.23	89450241
89450 with PFC	100 → 240 V ~	12 V ---	100 W	8.3 A	Automatic	Yes	0.64	89450122
	100 → 240 V ~	24 V ---	100 W	4.2 A	Automatic	Yes	0.64	89450222
	115 / 230 V ~	24 V ---	150 W	6.2 A	Automatic	Yes	0.97	89450232
	115 / 230 V ~	24 V ---	240 W	10 A	Automatic	Yes	1.23	89450242

Accessories

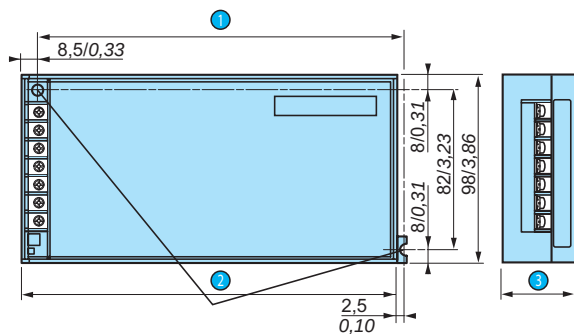
Description	Weight (kg)	Code
Mounting bracket	0.085	26450100
Snap-on plate for 35 mm DIN rail	0.035	26450101

General characteristics

Certifications	UL, cCSAus
Conformity to standards	Generic: UL 508, CSA 22.2 no. 60950 Safety: IEC/EN 60950-1 EMC: EN 61000-6-3, EN 61000-6-2 LF harmonic currents: EN 61000-3-2
Output circuit	
Status indication	Green LED
Operating voltage	12 V --- - 24 V ---
Nominal output current	5 - 8.3 A at 12 V and 2.5 - 4.2 - 6.2 - 10 A at 24 V
Output voltage accuracy	± 10%
Line and load regulation	± 3%
Residual ripple	< 200 mV
Protection against short circuits	Continuous, automatic restart
Protection against voltage surges	U > 1, 2U out
Thermal protection	Yes
Input circuit	
Nominal voltage	100→ 240 V~ (60 and 100W), 115/230 V~ (150 and 240W)
Current consumption	Ue = 240 2 A (60W) - 0.7 A (100W) - 2.5 A (150W) - 3 A (240W) Ue = 100 2 A (60W) - 1.4 A (100W) - 5 A (150W) - 6 A (240W)
Operating characteristics	
Connection capacity	Input: 2 x 4 mm ² + earth Output: 2 x 4 mm ² (60W) ; doubled for 100, 150 and 240W
Ambient storage temperature	-25→ +85
Relative humidity	20→ 90% RH
Vibrations	Conforming to EN 61131-2
Temperature Use	See graph
MTBF	>100.000 hr at 100% load (at 40°)
Generic immunities	Conforming to IEC 61000-6-2
Immunity to electrostatic discharges	Conforming to IEC 61000-4-2 level 3 (4 kV contact/8 kV air)
Immunity to electromagnetic discharges	Conforming to IEC 61000-4-3 level 3 (10V/m)
Immunity to conducted disturbances	Conforming to IEC 61000-4-4 level 3 (2 kV), EN 61000-4-5, EN 61000-4-6 level 3, EN 61000-4-8 level 4, IEC/EN 61000-4-12 level 3
Immunity to mains supply disturbances	Conforming to IEC/EN 61000-4-11 (voltage dips and interruptions)
Incorporated input fuse	Yes
Emission	Generic: conforming to EN 61000-6-3
Connections	Conducted/radiated: conforming to EN 55011, EN 55022 c1B
Dielectric strength	Input/output: 3000~ 50/60 Hz 1 min Input/earth: 1500~ 50/60 Hz 1 min Output/earth: 500~ 50/60 Hz 1 min

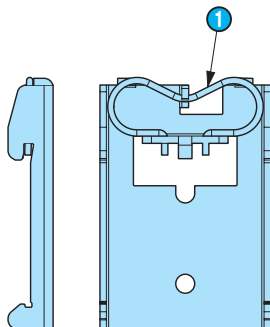
Dimensions (mm)

89450 power supplies



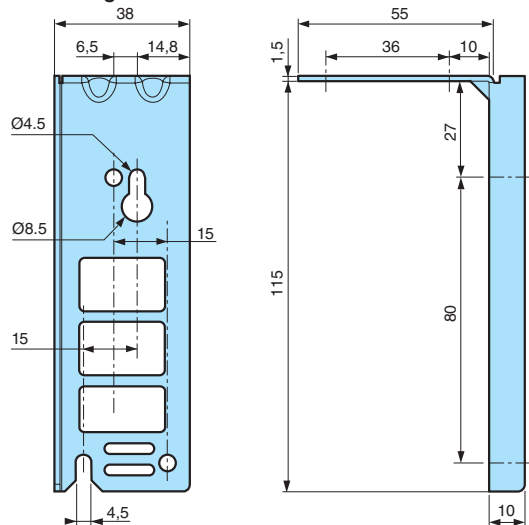
- ① 89450110-210 : 144 mm
89450221-231-241 : 194 mm
89450122-222-232-242 : 194 mm
- ② 89450110-210 : 150 mm
89450221-231-241 : 200 mm
89450122-222-232-242 : 200 mm
- ③ 89450110-122-210-221 : 38 mm
89450231-232 : 50 mm
89450241-242 : 65 mm

Snap-on plate



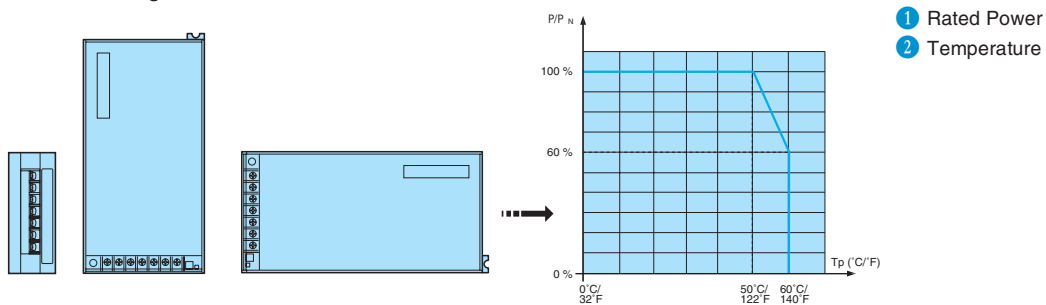
- ① Din Rail mounting bracket

Mounting bracket



Curves

Derating Vertical mounting



Derating

