

PIC120.241C	AC 200-240V / DC 24-28V 5A
PIC120.242C	AC 200-240V / DC 24-28V 5A
PIC240.241C	AC 200-240V / DC 24-28V 10A
PIC480.241C	AC 200-240V / DC 24-28V 20A

Before operating the power supply, read this manual thoroughly and retain it for future reference! This device may only be installed and put into operation by qualified personnel. If damage or malfunction should occur during operation, immediately turn power off and send unit to the factory for inspection. The unit does not contain serviceable parts. The tripping of an internal fuse is caused by an internal defect.

This power supply is designed for installation in an enclosure and is intended for general use such as in industrial control, office, communication, and instrumentation equipment. Do not use this device in equipment, where malfunction may cause severe personal injury or threaten human life.

Risk of electrical shock, fire, personal injury or death:

- (1) Do not use the power supply without proper grounding (Protective Earth).
- (2) Turn power off before working on the device. Protect against inadvertent re-powering.
- (3) Make sure that the wiring is correct by following all local and national codes.
- (4) Do not modify or repair the unit. The unit does not contain serviceable parts.
- (5) Do not open the unit as high voltages are present inside.
- (6) Use caution to prevent any foreign objects from entering the housing.
- (7) Do not use in wet locations or in areas where moisture or condensation can be expected.
- (8) Do not touch during power-on, and immediately after power-off. Hot surfaces may cause burns.

Installation Notes

- Install the device on a DIN-rail according to EN 60715 with the input terminals on the bottom of the unit.
- Do not obstruct air flow as the unit is convection cooled.
Ventilation grid must be kept free of any obstructions (min. 40mm on top, 20mm on the bottom, 5mm left and right side).
- Do not place heat sources adjacent to the power supply.
- Do not use the device in pollution degree 3 environments.
- Do not use the device in parallel connection.
- The unit is tested and approved for branch circuits up to 30A (UL), 32A (IEC) without additional protection device.
If an external fuse is utilized, do not use breakers smaller than 16A B- or 10A C-Characteristic (for PIC240) and not smaller than 10A B- or 6A C-Characteristic (for PIC120, PIC480) to avoid nuisance tripping.
- Maximum surrounding air temperature: 70°C / 158°F.
- For use in CSA C22.2 No 107 areas: Provide an output disconnecting means and use only in controlled environments.

CE Declaration

The CE mark is in conformance with the EMC directive and the low-voltage directive (LVD).

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Technical Data ¹⁾		PIC120.241C PIC120.242C	PIC240.241C	PIC480.241C
Output Voltage	nom.	DC 24-28V	DC 24-28V	DC 24-28V
Output Current	nom.	5A at 24V, 4.3A at 28V	10A at 24V, 8.6A at 28V	20A at 24V, 17.1A at 28V
Output Power	nom.	120W	240W	480W
Output Ripple & Noise Voltage ²⁾	max.	100mVpp	100mVpp	100mVpp
Input Voltage	nom.	AC 200-240V ±10%	AC 200-240V ±10%	AC 200-240V ±10%
Input Frequency	nom.	50-60Hz ±6%	50-60Hz ±6%	50-60Hz ±6%
Input Current	typ.	1.1A	2.2A	2.2A
Power Factor	typ.	0.54	0.52	0.99
Input Inrush Current ³⁾	typ.	28A peak	48A peak	26A peak
Efficiency / Power Losses	typ.	90.5% / 12.6W	91.4% / 22.6W	95.7% / 21.6W
Operational Temperature Range ⁴⁾	nom.	-10°C - +70°C	-10°C - +70°C	-10°C - +70°C
Output Derating	nom.	3W/°C (+55°C - +70°C)	6W/°C (+55°C - +70°C)	8W/°C (+55 - +70°C)
Storage Temperature Range	nom.	-40°C - +85°C	-40°C - +85°C	-40°C - +85°C
Terminals ⁵⁾ Stranded / solid wire	nom.	max. 4mm ² / 6mm ²	max. 4mm ² / 6mm ²	max. 4mm ² / 6mm ²
AWG	nom.	20-10AWG	20-10AWG	20-10AWG
Wire stripping length	nom.	7mm, 0.28inch	7mm, 0.28inch	7mm, 0.28inch
Tightening torque	nom.	1Nm, 9lb.in	1Nm, 9lb.in	1Nm, 9lb.in
DC-OK Contact		PIC120.241C: Yes ⁵⁾ PIC120.242C: No	Yes ⁵⁾	Yes ⁵⁾
EMC Immunity Generic Standard		IEC 61000-6-1/ -6-2	IEC 61000-6-1/ -6-2	IEC 61000-6-1/ -6-2
EMC Emission Generic Standard		IEC 61000-6-3 /-6-4	IEC 61000-6-4	IEC 61000-6-3 /-6-4
Radiated Emission		EN 55011/22 Class B	EN 55011/22 Class B	EN 55011/22 Class B
Conducted Emission		EN 55011/22 Class B	EN 55011/22 Class B	EN 55011/22 Class B
Harmonic Input Current		IEC 61000-3-2 Class A	-	IEC 61000-3-2 Class A
Dimensions (WxHxD, without DIN-rail)	nom.	39x124x124mm	49x124x124mm	49x124x124mm
Weight	max.	350g, 0.77lb	550g, 1.2lb	620g, 1.37lb

1) All parameters are specified at 230Vac, nominal output current, 25°C ambient and after a 5 minutes run-in time unless otherwise noted.

2) 50-Ohm measurement, bandwidth 20MHz

3) At 230Vac, 40°C ambient and cold start. The input inrush current is limited by a NTC and is temperature dependent.

4) The operational temperature range equals the surrounding air temperature measured 2cm below the unit.

5) Use appropriate copper cables, that are designed for a minimum operating temperature of 75°C for ambient temperatures up to 55°C and 90°C for ambient temperatures up to 70°C.

Follow national installation codes and regulations! Ensure that all strands of a stranded wire enter the terminal.

6) Contact ratings: 60Vdc 0.3A; 30Vdc 1A; 30Vac, 0.5A; resistive load, min. current 1mA.