

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 10A (B- or C-Characteristic) 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 EMC directive 2004/108/EC, the low-voltage directive (LVD) 2006/95/EC and the RoHS directive 2011/65/EU.

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Technical Data ¹⁾

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

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 60°C for ambient temperatures up to 45°C, 75°C for ambient temperatures up to 60°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.