

LoPAC MI Family

MILITARY

AC/DC POWER SUPPLIES

FEATURES

- Near unity power factor
- EN61000-3-2 harmonic current compliance
- Low profile package
- Output power to 1,500 W
- Up to six user specifiable outputs
- AC input: 25 – 264 Vac
- DC input: 100 – 380 Vdc (PFC Mini MI) or 100 – 300 (PFC Micro MI and PFC MicroS MI)
- Power density up to 11 W/in³
- Integral cooling fans
- 47 – 500 Hz operation
- Safely agency approvals: UL, cTÜVus
- MIL-STD-810G for vibration and shock
- MIL-STD 704 and 1399 for overvoltage and transients
- -40°C operation available
- Optional conformal coating



PRODUCT INFORMATION

The MI versions of the **PFC MicroS**, **PFC Micro** and **PFC Mini** are new members of the LoPAC family specifically designed for demanding environments such as military and heavy industry. Available as a one, two or three slot package, respectively, each LoPAC slot can be configured with standard Vicor DC-DC converter modules enabling up to six user-specifiable isolated outputs with a power density of up to 11 W/in³.

For maximum versatility and flexibility, the LoPAC can be configured with VI-26x (full brick), VI-J6x (half brick) or Maxi, Mini, Micro V375 Series full, half and quarter-brick modules. These modules cover the entire range of outputs from 1 to 100 Vdc and 25 to 600 Watts. The optimum solution can be factory configured based on your exact voltage and power requirements.

The LoPACs are designed to meet MIL-STD-810G for shock and vibration, MIL-STD-704 and 1399 for transients and overvoltage, and have optional -40°C operational temp rating and conformal coating. The supplies are compliant with all EN61000-6-1 for conducted and radiated immunity, as well as EN61000-3-2 for harmonic currents emissions and EN61000-3-3 for voltage flicker.

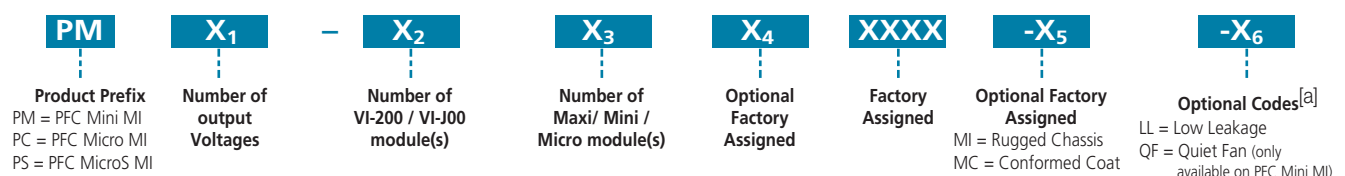
LOPAC SLOT CONFIGURATIONS

The DC-DC converter modules are used to populate each LoPAC converter slot. Each slot can be configured in different ways depending on module sizes and power limitations. The following table summarizes the available slot configurations for each of the three LoPAC packages.

MODEL TYPE	# SLOTS	MAXIMUM OUTPUT POWER TOTAL		
		@ 230 VAC	@ 115 VAC	MODULES PER SLOT
PFC Mini MI	3	1,500 W	800 W	1 Full or 2 Half
PFC Micro MI	2	800 W	500 W	1 Full or 2 Half or 3 Quarter
PFC MicroS MI	1	600 W	500 W	1 Full or 2 Half or 3 Quarter

* Consult Powerbox Sales for additional technical or design information to configure a tailored system.

PART NUMBERING



^[a] Refer to model type design guide for more on the optional codes.