



WESTCOR

Designing & Manufacturing
Medium to High Power
Configurable Power Supplies



PFC MIL-COTS AC-DC Power System, Up to 1,300 W Continuous Output Power

MIL-COTS MicroPAC Power System

The **MicroPAC** is an efficient solution for many applications, such as small distributed bus architecture, factorized power architectures and industrial applications. The MicroPAC is available in both fan-cooled and conduction-cooled packages.



Accessories

- **Graphical User Interface (GUI)**

Optional Features (Contact Factory)

- **Conformal coated**
- **40°C operation**

Overview

- **Dimensions:**
7.38" (l) x 4.0" (w) x 1.72" (h)
187.5 mm (l) x 101.6 mm (w) x 43.7 mm (h)
- **Input Voltages:**
85 to 264 Vac , 47 to 400 Hz, 120 to 300 Vdc
- **Number of Outputs:** 1 to 4
- **Output Voltages:**
12 V, 14 V, 24 V, 28 V, 36 V, 48 V and 60 V
- **Output Power:** Up to 1,300 W
- **Efficiency:** Up to 92%
- **Power Factor:** 0.99 typ. meets EN61000-3-2
- **Weight:** 2.15 lb / 975,22 grams
- **Storage Temperature:** -40°C to +85°C
- **Operating Temperature Fan:**
-20°C to +65°C (+65°C, 50% load)
-40°C Option available
- **Conduction:**
-40°C to +55°C Baseplate (see User Guide)
- **EMC Immunity:**
61000-4-11 Voltage Dip
61000-4-4 Fast Transient Burst
61000-4-5 Power Line Surge
61000-4-6 RF Susceptibility
61000-4-2 8KV ESD Discharge
61000-4-3 Voltage Field Immunity
61000-4-8 Magnetic Field Immunity
- **Conducted EMI:**
EN55022 B Compliant
CISPR B Compliant
- **Shock & Vibration:** MIL-STD-810
- **Inrush Current:** 30 A Peak
- **Safety Agency:** CE Mark, TUV, and UL
- **Warranty Period:** 2 Years

MegaPACs

Model	Dimensions	Input Voltage	Output Power	Number of Outputs	Per Slot
Autoranging MegaPAC	11.9" x 6" x 3.4" (302.3 x 152.4 x 86.4 mm)	90 to 132/ 180 to 264 Vac 260 to 380 Vdc	1,200 W @ 115 Vac 1,600 W @ 230 Vac	1 to 16 (8 slots)	ModuPAC, JrPAC, DualPAC, RamPAC, BatPAC
Mini MegaPAC	9.5" x 6" x 3.4" (241.3 x 152.4 x 86.4 mm)	90 to 132/ 180 to 264 Vac Strappable 260 to 380 Vdc	1,000 W @ 115 Vac or 230 Vac	1 to 10 (5 slots)	ModuPAC, JrPAC, DualPAC, RamPAC, BatPAC
PFC MegaPAC-EL/HPEL**	15.6" x 6" x 3.4" (396.2 x 152.4 x 86.4 mm)	85 to 264 Vac 100 to 380 Vdc	1,200 W @ 115 Vac 2,400 W @ 230 Vac	1 to 16 (8 slots)	QPAC, DualQPAC, JrQPAC, FinQPAC* FinQPAC requires 2 slots
4kW MegaPAC-EL**	17.0" x 7.5" x 4.9" (431.8 x 190.5 x 124.5 mm)	208 or 240 Vac Three Phase 260 to 352 Vdc	4,000 W - 3 phase	1 to 20 (10 slots)	QPAC, DualQPAC, JrQPAC, QPAC(XQ)*
PFC MegaPAC/HP	12.3" x 6" x 3.4" (312.4 x 152.4 x 86.4 mm)	85 to 264 Vac 100 to 380 Vdc	2,400 W @ 230 Vac 1,200 W @ 115 Vac	1 to 16 (8 slots)	ModuPAC, JrPAC, DualPAC, RamPAC, BatPAC, FinPAC* FinPACs require 2 slots
4kW MegaPAC	14.0" x 7.5" x 4.9" (355.6 x 190.5 x 124.5 mm)	208 or 240 Vac Three Phase 260 to 352 Vdc	4,000 W - 3 phase	1 to 20 (10 slots)	ModuPAC, JrPAC, DualPAC, RamPAC, BatPAC, UniPAC*

* ConverterPACs with Maxi module

** Low noise ripple for EL power supplies is 10 mV p-p or 0.15% whichever is greater.

The **MegaPAC** family is a field- and user-configurable family of power supplies that incorporates Vicor's DC-DC converters and accessory components. With a wide selection of inputs, outputs and power levels these power supplies offer the advantages of a custom supply, but are assembled from standard and modular building blocks therefore requiring no NRE and offering rapid delivery.



ConverterPACs

Type	Module(s) Used	Maximum Output	Options Available				Parallellable
			D Power Good	T Trim +10% / -10%	F Trim +10% / -50%	V VXi Low Noise	
VE-200 and VE-J00 ConverterPACs							
ModuPAC	1 VE-200	200 W	OPT	OPT**	OPT**	OPT	OPT
RamPAC	1 VE-J00 with a VE-RAM (5 to 50 V)	100 W	OPT***	OPT**	OPT**	NA*	NA
DualPAC	2 VE-J00	100 W / output	NA	OPT**	OPT**	OPT	NA
JuniorPAC	1 VE-J00	100 W	OPT	OPT**	OPT**	OPT	NA
BatPAC	1 BatMOD	200 W programmable current source	NA	NA	NA	NA	OPT
QPAC	1 VE-200 with discrete output filter	200 W	OPT	OPT**	OPT**	NA*	OPT
FlexPAC	2 to 4 discrete	50 W per output	NA	NA	2V to 25V	STD	Y
JrQPAC	1 VE-J00 with discrete output filter	100 W	OPT	OPT	OPT	NA*	NA
DualQPAC	2 VE-J00 with discrete output filters	100 W / output	OPT***	NA	NA	NA*	NA
Maxi ConverterPACs							
QPAC (XQ)	1 Maxi (300 Vin) with discrete output filter	500 W	OPT	OPT	OPT	NA*	OPT
UniPAC	1 Maxi (300 Vin)	500 W	OPT	OPT	OPT	NA	OPT
FinPAC	1 Maxi (375 Vin)	600 W	OPT	OPT	OPT	NA	OPT
FinQPAC	1 Maxi (375 Vin) with discrete output filter	600 W	OPT	OPT	OPT	NA*	OPT

* All QPACs and RamPACs have output ripple of 10mV p-p or 0.15% whichever is greater

** Module dependent, 3.3 V, 10 – 15 V "T" option only

*** Per slot based indicator



ConverterPACs are the family of slide-in output assemblies used in MegaPAC power supplies. There are currently 13 ConverterPACs available for use. Most ConverterPACs of the same length are interchangeable within a MegaPAC and between different AC input MegaPAC chassis. They can be added, moved, or changed as necessary.

ConverterPACs incorporate VI-200 or VI-J00 and / or Maxi Vicor DC-DC converter bricks. For additional power, ConverterPACs can be paralleled.

AC-DC & DC-DC Power Supply Families and Front End

Model	Dimensions	Input Voltage	Output Power	Number of Outputs	Per Slot
MicroPACs					
Micro PAC fan cooled or conduction	1.72" x 4.0" x 7.64" (43.7 x 101.6 x 194.1 mm)	85 to 264 Vac 120 to 300 Vdc	1300 W	1 to 4 (4 slots)	1 BCM/slot
LoPACs					
PFC MicroS	7.95" x 5.06" x 1.86" (201.9 x 128.5 x 47.3 mm)	85 to 264 Vac 100 to 300 Vdc	500 W @ 115 Vac 600 W @ 230 Vac	1 to 3 (1 slot)	1 VI-200 or 2 VI-J00s or 1 Maxi, 2 Minis or 3 Micros
PFC Micro	10.4" x 5.06" x 1.86" (264.1 x 128.5 x 47.3 mm)	85 to 264 Vac 100 to 300 Vdc	500 W @ 115 Vac 800 W @ 230 Vac	1 to 6 (2 slots)	1 VI-200 or 2 VI-J00s or 1 Maxi, 2 Minis or 3 Micros
PFC Mini	12.2" x 6" x 1.72" (309.9 x 152.4 x 43.6 mm)	85 to 264 Vac 100 to 380 Vdc	800 W @ 115 Vac 500 W @ 230 Vac	1 to 6 (3 slots)	1 VI-200 or 2 VI-J00s or 1 Maxi or 2 Minis No Micros
FlatPACs					
FlatPAC-EN	9.2" x 5.0" x 1.4" (233.7 x 127 x 35.6 mm)	90 to 132 / 180 to 264 Vac 250 to 380 Vdc	500 W @ 115 Vac or 230 Vac (425 W for EN compliance)	1 to 4	VI-200, VI-J00 Maxi, Mini, Micro
PFC Front End					
PFC FrontEnd	1.72" x 6.4" x 7" (43.6 x 162.6 x 177.8 mm)	85 to 264 Vac 100 to 380 Vdc	A non-isolated 384 V Front end		



For your most rugged applications

MI Power Supply Family

Model	Dimensions	Input Voltage	Output Power	Number of Outputs	Per Slot
FlatPACs MI					
FlatPAC EN MI	9.2" x 5.0" x 1.4" (233.7 x 127 x 35.6 mm)	90 to 132 Vac 180 to 264 Vac 250 to 380 Vdc	500 W (425 max if EN compliance required)	1 to 4	VE-200, VE-J00 Maxi, Mini, Micro
LoPACs MI					
PFC MicroS MI	7.95" x 5.06" x 1.86" (201.9 x 128.5 x 47.3 mm)	85 to 264 Vac 100 to 300 Vdc	500 W @115 Vac 600 W @230 Vac	1 to 3 (1 slot)	1 VE-200 or 2 VE-J00s or 1 Maxi, 2 Minis or 3 Micros
PFC Micro MI	10.4" x 5.06" x 1.86" (264.1 x 128.5 x 47.3 mm)	85 to 264 Vac 100 to 300 Vdc	500 W @115 Vac 800 W @230 Vac	1 to 6 (2 slots)	1 VE-200 or 2 VE-J00s or 1 Maxi, 2 Minis or 3 Micros
PFC Mini MI	12.2" x 6.0" x 1.72" (309.9 x 152.4 x 43.6 mm)	85 to 264 Vac 100 to 300 Vdc	500 W @115 Vac 800 W @230 Vac	1 to 6 (3 slots)	1 VE-200 or 2 VE-J00s or 1 Maxi, or 2 Minis No Micros
MegaPACs MI					
PFC MegaPAC MI	12.3" x 6.3.4" (312.4 x 152.4 x 86.4 mm)	85 to 264 Vac 100 to 380 Vdc	1,200 W @ 115 Vac 2,400 W @ 230 Vac	1 to 32 (8 Slots)	1 VE-200 or 2 VE-J00s or 1 Maxi or 1 FlexPAC
PFC MegaPAC MI EL	15.6" x 6.3.4" (396.2 x 152.4 x 86.4 mm)	85 to 264 Vac 100 to 380 Vdc	1,200 W @ 115 Vac 2,400 W @ 230 Vac	1 to 16 (8 Slots)	1 VE-200 or 2 VE-J00s or 1 Maxi
4KW MegaPAC	14.0" x 7.5" x 4.9" (355.6 x 190.5 x 124.5 mm)	208 to 240 3 phase 260 to 352 Vdc	4,000 W 3 phase	1 to 40 (10 slots)	1 VE-200 or 2 VE-J00s or 1 Maxi or 1 FlexPAC



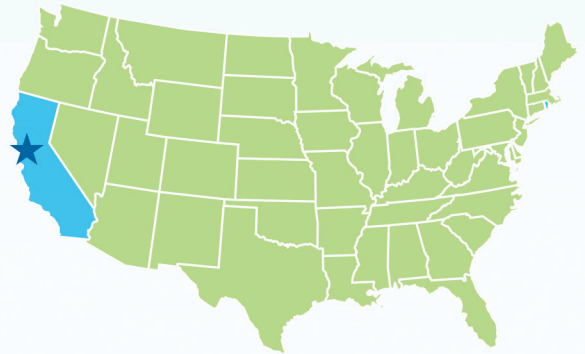


Configure Your Power Supply Now!

The Westcor Power System Configurator is a proprietary, flexible, powerful and easy to use online configuration tool for Vicor's Westcor division's AC-DC power supply product line. A registered user can specify and verify complete power solutions in real time. All designs are saved in the user's "My Designs" account for future reference and ordering convenience.

vspoc.vicorpower.com/vspoc/

WESTCOR ★



Vicor's Westcor division specializes in the design and construction of highly configurable multiple output AC-DC power systems that utilize Vicor's reliable DC-DC conversion and VI Chip technologies to offer the utmost in flexibility. With a variety of standard platforms that range in total power level from 500 watts up to 4 KW and the modularity of the dc-dc converters, Westcor can offer from DC outputs from 1 V to 95 V in 0.1 V increments, as well as up to 400 V out in series arrays.