CAMAC Mini crate series

Request Quote

CAMAC Mini crate series

The WIENER CAMAC mini crate is the perfect choice for small setups with only a few CAMAC modules. The crate offers 11 CAMAC slots in a compact designed chassis with integrated low noise power supply and cooling fan. The mini crate can be used on the desk either as a desktop or up-right unit or be installed in a 19” rack.

Based on the 6000 series it has a built-in microprocessor controlled low-noise power supply technology and provides all local and remote monitoring and control features.

The WIENER CAMAC mini crate is available “DAQ-ready” in a package configuration with high speed USB-2 CAMAC controller.

Main Features

- CAMAC-MINI-Bin mechanics for 11 CAMAC modules, suitable either for 19" racks, as tower- or desktop box
- 11 slot CAMAC data way backplane with controller slot 10/11
- Micro-processor controlled with alphanumeric high-visibility LED display, 4 status LED’s
- Efficient DC blower, adjustable speed (1200 … 3200 RPM,) temperature controlled
- Ethernet /RS232 / CAN-bus combo interface for crate remote monitoring and control
- Built-in Power-Supply designed in low noise VHF switching technology, noise and ripple typically less than 10mV(pp) or 3mV(rms)
- 4 (+-6V, +-24V) or 6 (+-6V, +-12V, +-24V) output voltages at 650W/≥100VAC output power, world wide range AC-input 94 to 260V AC 50Hz/60Hz

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- Front and rear cover / screen for module space, cable duct between front- and rear-side of the card cages with space for one or more 2,5" hard / floppy-disks
- Micro-processor controlled with alphanumeric high-visibility LED display, 4 status LED's
- Efficient DC blower, adjustable speed (1200 … 3200 RPM,) temperature controlled
- Integrated fan and thermal monitoring (optional 8 temperature sensor ports, 5 ports free for custom applications) with temperature display (C/F), programmable over temperature protection
- Ethernet /RS232 / CAN-bus combo interface for crate remote monitoring and control
- Built-in Power-Supply designed in low noise VHF switching technology, noise and ripple typically less than 10mV(pp) or 3mV(rms)
- 4 (+-6V, +-24V) or 6 (+-6V, +-12V, +-24V) output voltages at 650W/≥100VAC output power, world wide range AC-input 94 to 260V AC 50Hz/60Hz
- CE-conformity
- Dimensions: 19" (482mm) x 4U (178mm) x 480mm [whd], weight: ca. 25 Kg

Standard configurations (other possible on request)

Crate Version	+6V / -6V	+12V / -12V	+24V / -24V	118VAC
MiniCAMAC 400	17A/17A	3.4A / 3.4A	3.4A / 3.4A	-
MiniCAMAC 600	17A/17A	-	3.4A / 3.4A	-
MiniCAMAC 400x	17A/17A	-	3.4A / 3.4A	-
MiniCAMAC 600x	38A/38A	-	8A / 8A	-

- Optional package with high speed USB-2 CAMAC crate controller CC-USB with built-in list processor and CAMAC dataway display, 3 + 3 user programmable NIM I/O ports (trigger, delay gate or pulse generator, scaler, …)
- 2 slots occupied by CAMAC crate controller, 9 slots remaining for other modules

Standard configurations for package with CC-USB

Crate Version	+6V / -6V	+12V / -12V	+24V / -24V	118VAC
MiniCAMAC 400-CC	17A/17A	3.4A / 3.4A	3.4A / 3.4A	-
MiniCAMAC 600-CC	17A/17A	-	3.4A / 3.4A	-
MiniCAMAC 400x-CC	17A/17A	-	3.4A / 3.4A	-
MiniCAMAC 600x-CC	38A/38A	-	8A / 8A	-

CAMAC Mini crate

Rated mains input range	106- 230VAC ± 15% (90...265VAC)
Rated input current	Sinusoidal 16A
Inrush current:	limited to rated input current (cold unit)
Input fuse:	external,

Isolation (Inp.-outp.)	CE EN 60950, ISO 380, VDE 0805, UL 1950, C22.2.950	
DC output power:	650... <1100W (92 …265VAC)	
Regulation		
static:		
MDH (>20A):	<0,05% (+/-100% load, +/- full mains range)	
MDL / MDH	<0,1% (+/-100% load, +/- full mains range)	
dynamic.:		
MDH	<100mV (+/-25% load)	
MDL / MDH	<0,7% (+/-25% load)	
Recovery time +/-25% load:	within +-1%	within +-0,1%
Modules 550W	0,2ms	0,5ms,
Modules 650W	0,5ms	1,0ms
MDL / MDH	0,0ms	1,0ms
(Conditions: Current slope <1000A/ms, 21mF per 100A ^ 1mF per slot)		
Sense compensation range: difference between min. and max. output voltage		
EMC Compatibility		
EMA.	EN 61 000-6-3:2001	[RF emission]
	EN 55 022:1998 + Corr:2001 + A1:2000 Class B	conducted noise
	EN 55 022:1998+ Corr:2001 + A1:2000 Class B	radiated noise
	EN 61 000-3-2:2001	harmonics
	EN 61 000-3-3:1995 +Corr:1997 +A1:2001	flicker
EMB	EN 61 000-6-2:2001	[immunity]
	EN 61 000-4-6:1996 + A1:2001	injected HF currents
	EN 61 000-4-3:1996 + A1:1998 + A2:2001	radiated HF fields incl. ”900MHz”
	EN 61 000-4-4:1995 + A1:2001	Burst
	EN 61 000-4-5:1995 + A1:2001	Surge
	EN 61 000-4-11:1994 + A1:2000	voltage variations
	EN 61 000-4-2:1995 + A1:1998 + A2:2001	ESD

Operation

temperature:	0… 50°C ambient without derating, Storage:-30°C ... +85°C	
Temperature coefficient:	< 0,2% / 10K	
Stability:	10mV or 0,1% / 24 hours, 25mV or 0,3% / 6 month (under constant conditions)	
Current limits:	adjustable to any lower level	
Voltage rise characteristics:	monotonic 50ms, processor controlled.	
Overvoltage protection:	crow bar protection trip off adjusted to 125% of nominal voltage each output	
DC Off (trip off):	within 5ms if >5% deviation from adjusted nominal values, after overload, overheat, overvoltage, undervoltage (bad status), and fan fail, if temperatures exceed 125°C at heat sinksLimits programmable. Outputs discharged by crow bars, when power supply tripped- or switched Off.	
Efficiency:	75% ... 85%, depends on used modules	
M F O T (Maintenance Free Operation Time):		
internal blowers:	40°C ambient	>65 000 h
	25°C ambient	100 000 h
electronics:	40°C ambient	>100 000 h

Product Data Sheet

CAMAC Mini crate series:	Print Product Data Sheet

Documentation

Manual and Tech-Notes :	Manual NIM-CAMAC
	RemoteControl
Introduction:	WIENER NIM CAMAC introduction

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