Item B) 21 Slot VME64xPo crate, 19" wide, ca. 480 mm deep and 10U high VME crate, ventilated. The VME module cage is placed above the 2U fan tray unit + 1 U plenum chamber. The power supply is located in rear bottom position behind the fan tray and plenum chamber giving free access to the rear side of the backplane. The UEV 6023 bin has a very rigid crate mechanics with massive 5mm thick aluminum side panels. It is equipped with a VME 64-X backplane with J1/J0/J2 connectors with electronic automatic daisy-chain.

The fan tray unit UEL6020 is equipped with 3 high efficient long-life DC-fans. The fans are individually controlled with adjustable fan-speed. The 1U plenum chamber between fan tray and VME modules results in a more homogeneous air flow in the VME card cage. Above the VME card cage there is 1 U to direct the air coming out of the modules to exit in the rear of the crate. **The fan tray is hot-swappable** (can be changed during operation).

The rear-side transition cage is not ventilated.

The UEP 6021 is a micro-processor controlled low-noise VME crate power supply designed as a plug in unit fitting into the rear of the crate. It is prepared with the following DC outputs (3 power modules): **+5V/115A, +3,3V/115A, +12V/11.5A, -12V/11.5A**. There is space in the power chassis for 2 more power blocks to increase the current output or to add further DC voltages.

The front panel is equipped with all control and monitoring facilities according to 109010100-EQ0001-R01 Specification. A second DC on/off switch is available at the rear side.

Mains input				
C Sinusoidal:		CE	EN 60555, IEC 555 pow. fact. 0.95 (230VAC), 92...264VAC, 10A/ 20A	
Inrush current:			limited by softstart-circuit, max 1.1 fold nominal input current	
Isolation	Inp.-outp.	CE	EN 60950, ISO 380, VDE 0805, UL 1950, C22.2.950	
Regulation				
static:	MEH 550W/650W		<25mV	(+/-100% load, +/- full mains range)
	MDH (20A):		<0.1%	(+/-100% load, +/- full mains range)
	MDL (11.5A/7.4A):		<0.1%	(+/-100% load, +/- full mains range)
dyn.:	MEH, MDH		<100mV	(+/-25% load)
	MDL (11.5A/7.4A):		<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 (11.5A/7.4A):		0.0ms	1.0ms
Sense compens.range:			difference between min. and max. output voltage	
Noise and ripple:			<10mVpp, (0-20MHz)	<3mVrms (0-2MHz)
EMI				
RFI-rejection (emission):		CE	EN 50081-1 VDE 0871B, Mains inp. C or E otherwise EN 50081-2	
EMC (immunity):		CE	EN 50082-1 or 2	

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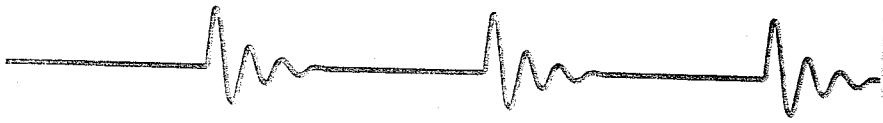

Operation temperature:	0....50°C without derating, Storage:-30°C ... +85°C
Temp.-coefficient:	< 0.2% / 10K
Stability: (conditions const.)	10mV or 0.1% within 24 hours 25mV or 0.3% within 6 month
Current limits:	adjustable to any lower level (via fan tray switches or netware).
Voltage rise characteristics:	monotonic 50ms, processor controlled. Complementary outputs with dual tracking
Overvoltage crow bar protection: DC Off (trip off):	trip off adjusted to 125% of nominal voltage each output within 5ms if >2% deviation from adjusted nominal values, after overload, overheat, overvoltage, undervoltage (bad status) and fan fail Output capacitors will be discharged by the crow bars temperature limits 110°C heat sink, 70°C ambient, trip off points adjustable, processor controlled.
Efficiency:	75% average, depends on used modules

Prices for special designed 21 slot VME crate

Pricing -	Order Quantity	BOA Price each in US-$
21 slot VME crate acc. to spec.	1 - 7	
21 slot VME crate acc. to spec.	8 - 16	
21 slot VME crate acc. to spec.	16 - 24	
21 slot VME crate acc. to spec.	25 +	

Quality

Wiener is in the crate, power supply and sub-rack market since 40 years (design and production). Our production is based on ISO 9000 Quality standards. Due to well balanced designs of our "VME crates for physics" and their outstanding quality we became an approved vendor of all leading high energy and nuclear physics institutes and around the world. These are for example: SLAC, LBL, FNL, BNL, CERN, ILL, DESY, NASA,

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VME6023 10U Plenum Bin