

- 1 to 5 outputs
- 200 W and 300 W model
- Power Boost: 150% for 10 s
- PFC optional
- VME-Bus-Signals
- High reliability



Short description

The VME200/300 is an AC/DC-converter for 115 / 230 V_{AC} input voltage with PFC-Option for 19"-mechanics or as Open Frame power supply unit with optional cover. The primary-secondary conversion occurs in rugged half bridge technology. Besides the controlled main output, four other secondary voltages are possible. The whole power of 200 W / 300 W can be increased for 10 s to 300 W / 400 W. By design of the power supply as voltage- and current source and the optional features, the device is suitable for various applications.

Options

The input voltage range can be switched manually or automatically (optional PFC). The outputs 2 and 3 can be equipped with an additional magnetic amplifier. VME-Bus-signals can be generated. By remote On/Off-input the power supply unit can be switched off. Power-fail or DC-Fail can be provided also as relay contact.

Variations

max. 300 W, 450 W for 10 s
 max. 50 A, secondary output 10 A
 max. 150 V

Variation	Output 1	Output 2	Output 3	Output 4	Output 5
VME300/2	2 V / 50 A				
VME300/5	5 V / 45 A				
VME300/12	12 V / 25 A				
VME300/24	24 V / 12 A				
VME300/48	48 V / 6 A				
VME300/31	5 V / 40 A	12 V / 6 A	-12 V / 3 A		
VME300/32	5 V / 40 A	15 V / 3 A	-15 V / 3 A		
VME300/41	5V / 40 A	12 V / 10 A	-12 V / 3 A	24 V / 10 A	
VME300/51	5 V / 40 A	12 V / 4 A	-12 V / 4 A	24 V / 4 A	-5 V / 4 A
VME300/52	5 V / 40 A	15 V / 3 A	-15 V / 3 A	24 V / 4 A	-5 V / 4 A
Further variations (e.g. 200 W) on demand					

Input

Input voltage nom.	230 V _{AC}	114 V _{AC}	PFC
Input voltage range	184-264 V _{AC}	103-132 V _{AC}	103-264 V _{AC}
Mains frequency	47-63 Hz		
Inrush current	<30 A _{pk} limited by thermistor		
Input power	400 W, 600 VA for 10 s (for VME300)		
RFI, isolation, leakage current, voltage- and transient response	See Standards		

Output

Output voltage	max. 200 V, see table, other types on demand	
Output current	max. 50 A, main output max. 10 A, main output see table, other types on demand	
Efficiency	typ. 80%	
Ripple	<0.2% rms; <1% pp (range 30 Mhz)	
Dyn. Load regulation	± 2%, load change 40% / 60%	
	Main output	Side outputs
Load regulation	+/-1%, 50% load	+/-3%, 25-100% load
Line regulation	0.02%	0.05%
Cross regulation	+/-10% load changes	+/-1%
Temperature coefficient	0.02%/°K	0.05%/°K
Matching range	Approx. +/-15%	
Hold up time	>20 ms at nominal voltage and load	
Parallel mode	Possible, option: decouple diode	

Ambient conditions

Temperature range	0°C to 40°C, from 40°C Derating with 2.5%/°C
Forced cooling	0°C to 70°C, flow rate >1 m/s
Storage temperature range	-20°C to + 85°C
Humidity	0 – 90% non-condensing

Standards

Low voltage directive	2006/95/EG
Safety	EN 60950-1, EN 61010-1
High-voltage test	By EN 60950-1
Clearance and creeping distances	8 mm input – output 4 mm input – chassis 2 mm output – chassis
Leakage current	< 0.5 mA at 50 Hz and 265 V _{AC}
EMC	2004/108/EG
RFI	curve B by EN 55011
ESD	EN 61000-4-2: 8 kV
Burst	EN 61000-4-4: 4 kV
Appliance class	I
Ingress protection range	19": IP20, Open Frame: IP00

Protection

Current limiting	Main output constant current >105% Side outputs electronic limiting
Power limiting	200 W or 300 W, for 10 s 150%
Over voltage protection	105 – 130%, depends on variation, resettable by mains separation

Interfaces and signals

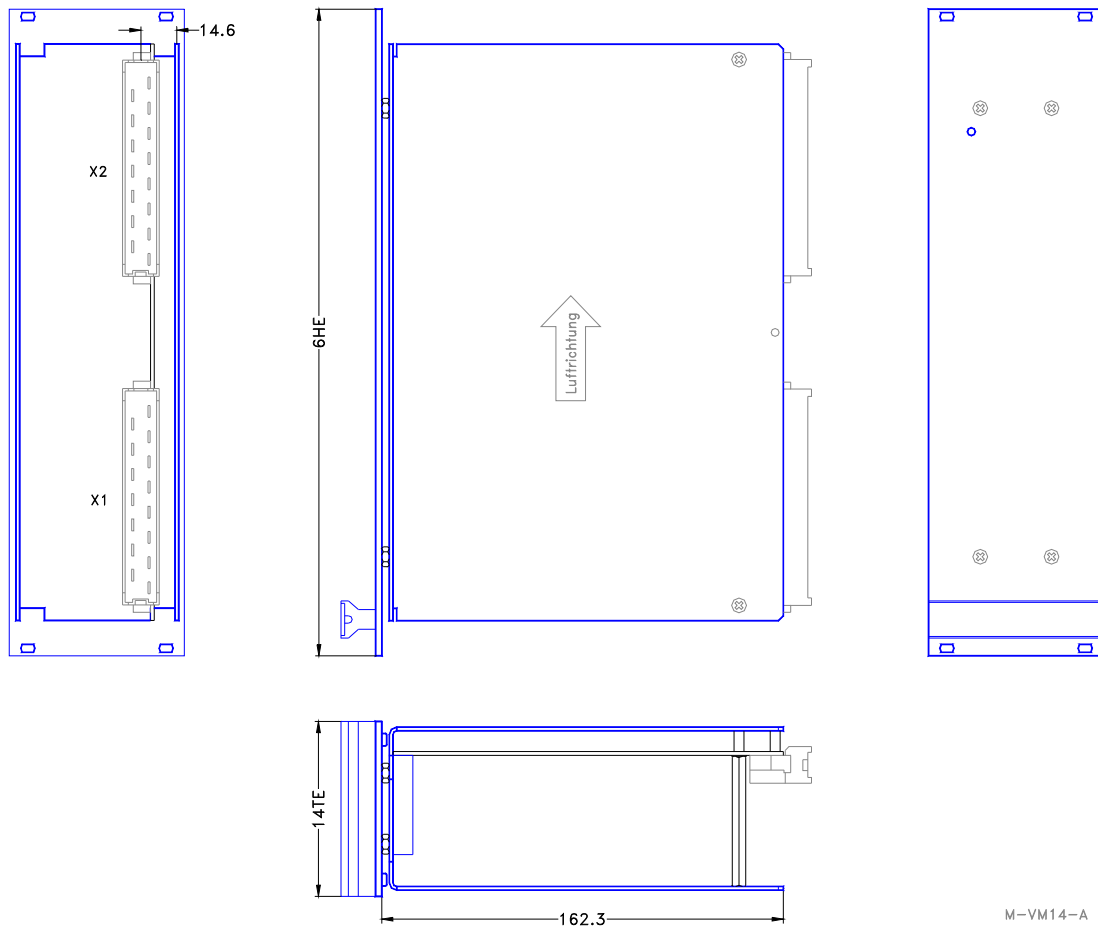
LED green	Power supply in normal operating mode
System-Reset	optional, delay time >280 ms, SA-input = 5 V = log. 1
Power Fail	optional, by VME-Spec. Rev. C1
Gate input	optional, SA = 5 V -> System Reset = active
Remote On/Off	optional, ROF = 0V -> power reducing
DC-Good-Signal	optional, Relay contact, 60 V / 1 A

Mechanics / Mounting

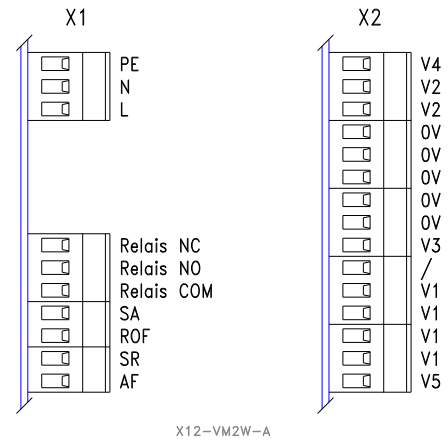
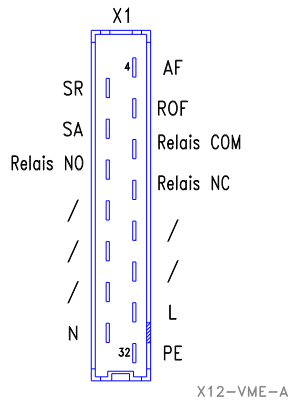
Cooling Free convection

Weight 2 kg

Type	Power	Mechanics	Height	Width	Depth
VME200	200 W	19"	6 U	12 HP	160 mm
		Open Frame	233 mm	52 mm	160 mm
VME300	300 W	19"	6 U	14 HP	160 mm
		Open Frame	233 mm	62 mm	160 mm

Mechanics VME300


Terminal configuration (H15 or screw terminal / Fast On)



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