- 1 to 3 outputs
- VME-Signals optional
- High reliability
- Up to 120 W constant power, 140 % for 10 Sec.
- High peak currents on all outputs

Input voltage range
115 V_{AC}, 230 V_{AC}
110 V_{DC}, 220 V_{DC}

Output voltage range
3 V to 150 V
(to 20 A)

Options
Within the given voltage ranges the input- and output voltage and output current are adaptable to customer applications

Variantion	Output 1	Output 2	Output 3/4	Power	Construction
091	12 V/10 A			120W	8 TE
071	24 V/5 A			120W	8 TE
087	5.2 V/10 A	15 V/2 A	-15 V/2 A	100W	8 TE
231	5 V/6 A	12 V/4 A	15 V/1 A 24 V/1 A	100W	14 TE
244	5 V/3 A	24 V/2 A potentialfree		100W	8TE

- up to 5 outputs possible by extension circuit board,
Details of the mechanics (14TE) on demand -

- other output voltages / output currents on demand -

Input

Input voltage range	103 V_{AC} to 132 V_{AC} or 207 V_{AC} to 264 V_{AC} 220 V_{DC} 110 V_{DC} (power derating of 40 %)
Input current	4 A
Input power	max. 200 VA
Efficiency	typ. 80 %
Input frequency	47 Hz to 63 Hz or DC
Inrush current	< 16 A_{PK} (limited by thermistor)
Holdup-time	> 28 ms at nominal voltage and load

Output

Output voltages	See table
Output currents	See table
Ripple rms/pp	0.2% rms; 1 % pp (range 30 MHz)
Dynamic regulation	±1 % (load change 40 %/60 %)
Line regulation	Output 1: ±0,02 %/output 2 to 3: ±0,05 %
Load regulation	Output 1 (50 % Load): ±1 %/output 2 to 3: ±3 % (25 % to 100 % load)
Cross regulation	±1 % (load change 40 %/60 %)
Temperature coefficient	Output 1: ±0,02 % / output 2 to 3: ±0,05 %

Ambient conditions

Temperature range	0 °C to 50 °C without power derating, 50 °C to 70 °C Derating 2,5 %/°C
Forced cooling	0 °C to 70 °C, flow rate > 1 m/s
Storage temperature range	-25 °C to +85 °C
Humidity	0 % to 90 % non-condensing

Standards

Low voltage directive	2006/95/EG
Safety	EN 60950-1
High-voltage test	EN 60950-1
Clearance and creeping distances	8 mm input - output 4 mm input - chassis 2 mm output – chassis
Leakage current	< 3.5 mA (250 V/50 Hz)
EMC	2004/108/EG
RFI	EN 55011 level B
Transient response	EN 61000-3-4
ESD	EN 61000-4-2: 8 kV
Burst	EN 61000-4-4: 4 kV
Appliance class	I
Ingress protection rating	IP20

Protection

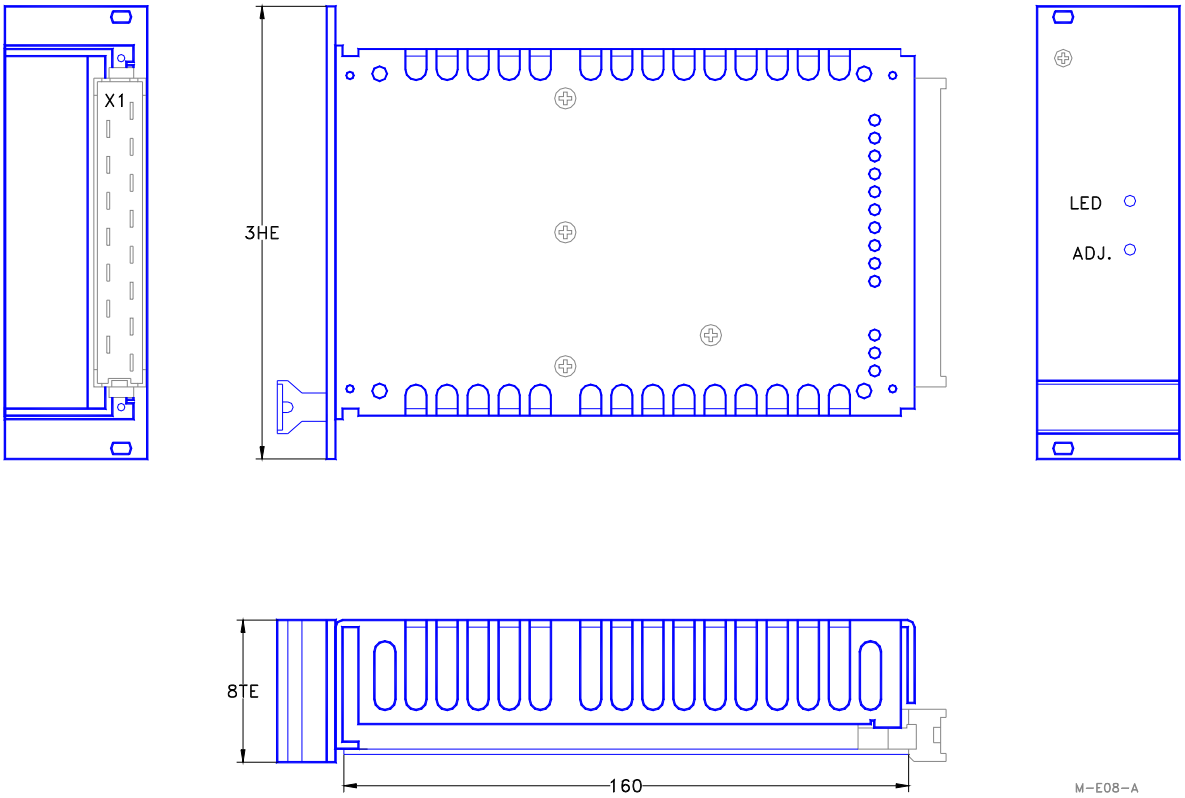
Power limiting	Up to 120 W constant (see table), 140 % for 10 s
Current limiting	Constant current > 105 %
Over-voltage protection	Output 1: 120 % to 140%, resettable by mains separation

Interfaces and signals

Remote On/Off	By connection with 0 V: power reduction
Power Fail	TTL-compatible: L-level - Power fail, 10 ms hold time
LED display	Standby green, no protection in use
Signal options	AC-fail-Signal, System-Reset, DC-fail-Signal for output 1 (+)-Sense, (-)-Sense

Mechanics / mounting

Measurements	3 U/8 HP/160 mm (see drawing)
Weight	1.1 kg



Connectors

Input/output DIN 41612 H15

DIN 41612 H15	30 Neutral	26	22 Remote on/off	18 Output 3 ((-)-Sense)	14 0 V	10 0 V	6 Output 1	
Earth 32	Line 28	24	Power fail 20	Output 2 ((+)-Sense) 16	0 V 12	Output 1 8	Output 1 4	

QUEL Produktions- und Vertriebs-GmbH
Hans-Sachs-Str. 2, 63755 Alzenau

Telefon +49 (6023) 9798-0, Fax: +49 (6023) 9798-18
Email: info@quel.de, Internet: www.quel.de

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Author: AR