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# EHQ 1xxx

# High Voltage PS in 3U Cassette

## Description

The EHQ 1xxx series offeroffers a comprehensive range of HV power supplies packaged in 3U x 8HP eurocassettes. They have either Rs232, CAN or an analogue interface as standard. The input can either be  $\pm 24$ VDC or  $\pm 12$ VDC depending on the output power required. Optionally they can be delivered mounted in either a  $\frac{1}{2}$ 19" x 3U x 350mm rack or a full 19" x 3U x 350mm rack with 230V/110V AC input. The  $\frac{1}{2}$  rack will accommodate 4 eurocassettes. The full rack will house up to 8 units.



- LCD display for voltage & current
- Remote control via RS232
- Voltage & current limits
- Compact 3U cassette
- Switchable polarity

## Selection Table

Part Number	Maximum Power	Output Voltage	Output Current	Interface Type
EHQ 102M	12W	0 - 2 kV	0 - 6 mA	RS232
EHQ 132M	12W	0 - 2 kV	0 - 6 mA	CAN
EHQ 103M	12W	0 - 3 kV	0 - 4 mA	RS232
EHQ 133M	12W	0 - 3 kV	0 - 4 mA	CAN
EHQ 104M	12W	0 - 4 kV	0 - 3 mA	RS232
EHQ 134M	12W	0 - 4 kV	0 - 3 mA	CAN
EHQ 105M	10W	0 - 5 kV	0 - 2 mA	RS232
EHQ 135M	10W	0 - 5 kV	0 - 2 mA	CAN

Different output ranges and application/user specific options are possible. Please contact ET to discuss your requirements.



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# High Voltage PS in 3U Cassette

## Technical Data

Ripple & noise (02M, 32M, 03M, 33M, 04M, 34M).....	2mV <sub>pp</sub>
Ripple & noise (05M, 35M).....	5mV <sub>pp</sub>
Resolution of voltage measurement.....	1V
Resolution of current measurement (Range).....	1µA (option 104 = 10nA for current range of 0 - 100µA)
Voltage accuracy (for one year).....	± (0.05% V <sub>o</sub> + 0.02% V <sub>NOM</sub> + 1 digit)
Current accuracy (for one year).....	± (0.05% I <sub>o</sub> + 0.02% of range + 1 digit)
Stability (?V <sub>o</sub> /?V <sub>IN</sub> ).....	< 5 x 10 <sup>-5</sup> x V <sub>NOM</sub>
Stability load (?V <sub>o</sub> ).....	< 5 x 10 <sup>-5</sup> x V <sub>NOM</sub>
Temperature coefficient.....	< 5 x 10 <sup>-5</sup> /K
LCD display.....	4 digit for voltage or current
Voltage setting.....	Manual: 10 turn potentiometer    DAC: via Interface
Ramp speed at HV On/Off.....	Hardware ramp: 500V/s
Ramp speed at Interface.....	Software ramp: 2 - 255V/s
Protection.....	Separate current & voltage limit, INHIBIT, current trip
DC power requirements.....	± 24VDC (< 500mA) (option ±12V (<1A))
AC power requirements.....	± 230VAC (option 85 - 264VDC)
Polarity.....	Switchable

## Options Table

Code	Description
/104.....	100µA current range with resolution of 10nA via display and 1nA via interface (Frequency fixed)
/F12.....	Full output power (12W) with V <sub>IN</sub> ±12V ±<1A
/ECH 124.....	Unit placed in 4 slot mainframe (see below for details)
/ECH 128.....	Unit placed in 8 slot mainframe (see below for details)
/ECH 12A.....	Unit placed in 10 slot mainframe (see below for details)

## 19" Mainframes

Type	Slots	Power	Dimensions (H x W x D)
ECH 124	4 + 1	120W	3U x ½ 19" x 350mm
ECH 128/128M	8 + 1	300W	3U x 19" x 350mm
ECH 12A/12AM	10 + 1	300W	3U x 19" x 350mm



Every effort is made to ensure that the information provided within this technical summary is accurate. However, ET must reserve the right to make changes to the published specifications without prior notice. Where certain operating parameters are critical for your application we advise that they be confirmed at the time of order. ET specialises in modifying its proven platforms to suit your needs. Please contact our office if your requirement is non-standard. Your chosen unit may differ from that shown.