



Voltage, current and over-voltage protection (OVP) continuously adjustable from 0 to full output via

- Front panel controls (ten turn)
- Remote programming
- Resistance programming (not OVP)
- IEEE-488/RS232-Interface (optional)

M8C

| | | | | |
|----------------------------|-------|-------|------|------|
| Voltage (V _{DC}) | 0-8 | 0-15 | 0-40 | 0-60 |
| Current (A _{DC}) | 0-180 | 0-120 | 0-65 | 0-45 |

Specifications

• Constant Voltage Mode

Voltage output range ≤100mV to full output voltage
10 turn potentiometer

Line regulation: 0,01% or 5mV* (±10% line change)

Load regulation: 0,02% or 10mV* (100% load change)

Regulation time: 100µs (load change from 50% to 100%)
within 50mV

Ripple: ≤ 10mV_{rms}, spikes 0,5% typ.

Stability: 0,05% or 20mV* within 8 hours at const. line,
const. temperature and const. load

Temperature coefficient: 0,02% V_{Max} / °C (0-40°C)

Short circuit protection: Automatic current limitation,
adjustable from ≤ 500mA to C_{Max}

Remote sensing: Max. line drop 0,5V / output line

• Constant Current Mode

Current output range: ≤ 500mA to full output current
10 turn potentiometer

Line regulation: 0,1% + 10mA (± 10% line change)

Load regulation: 0,2% +10mA (100% load change)

Ripple: 0,2% or 50mA*

Stability: 0,1% C_{Max} within 8 hours at const. line, const.
temperature and const. load

Temperature coefficient: 0,05% C_{Max} / °C (0-40°C)

Output: Insulating, floating up to 300V_{DC}

Input voltage: 400V_{AC} ± 10%, 47..65Hz,
three phase – star connection (5 wire)

Input current: approx. 12A (M8C), approx. 16A (M14C)
per phase at 400V input

(* the higher value is valid)

Features

- **Precision series-pass regulation with Thyristor preregulation**
- For normal laboratory use as well as complex system applications
- Constant Voltage Mode / Constant Current Mode with automatic crossover and mode indicator
- Fast regulation, low ripple and high precision
- Short circuit protection, output floating
- Remote sensing
- No turn-on/turn-off transients
- Softstart (at M8C as an option)
- Series or parallel operation, Master-Slave operation
- Compact 19" rack, (M8C: 5U, M14C: 9 U)

Call for a customer requested solution

M14C

| | | | | | |
|----------------------------|-------|-------|-------|-------|-------|
| Voltage (V _{DC}) | 0-8 | 0-15 | 0-30 | 0-40 | 0-60 |
| Current (A _{DC}) | 0-300 | 0-250 | 0-200 | 0-150 | 0-100 |

Other details

Storage temperature: -20 ..+70°C

Operation temperature: 0 ..+40°C,
(up to 60°C with max. 80% C_{Max})

Cooling: Forced ventilation, intake area frontthird, air
escapes through the rear wall

Metering: Analog meters for voltage and current,
meters accuracy ±1,5%

Dimensions front panel: HxW for M8C 222 x 483 mm
for M14C 399 x 483 mm

Dimensions mounting:

M8C DxW: 450x443 mm, with connectors: 510x443 mm

M14C DxW: 550x443 mm, with connectors 625x443 mm

Wight: approx. 65kg (M8C), approx. 100kg (M14C).

Options

- Opt. 02** External voltage programming (V_{Out} : V_{Prog} = 1 : 1)
- Opt. 03** External current programming with voltage
(V_{Prog}= 0-5V or 0-10V, C_{Out} = 0..C_{Max})
- Opt. 08** Delayed current limitation(150% C_{Max}, max.0,5s)
- Opt. 9x** Transient-absorber (recommended when
supplying inductive loads)
- Opt. 24** External voltage and current programming with
voltage (V_{Prog}=0-5V or 0-10V
for V_{Out}=0-V_{Max} and C_{Out}=0-C_{Max})
- Opt. 37** IEEE488/RS232-Interface with 1U casing
- Opt. 12** Softstart (M8C)