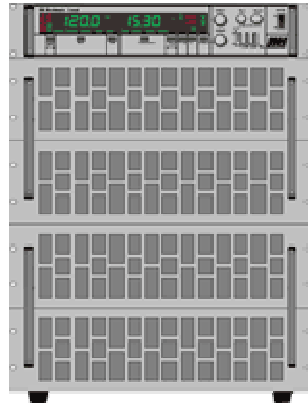


DATASHEET 1310-17612

Operating Modes Setting

| Current: | Voltage: | Resistance: | Power: |
|-------------|-------------|--------------------|---------------|
| 0 ... 275 A | 0 ... 40 V | 7.3 m Ω ... 4.85 Ω | 0 ... 13200 W |
| 0 ... 825 A | 0 ... 120 V | 2.4 m Ω ... 1.62 Ω | 0 ... 39600 W |



Accuracy of the Manual Setting, without Presetting:

| | of setting | of corresponding range |
|---------|------------|------------------------|
| Voltage | ±0.2% | ±0.05% |
| Current | ±0.2% | ±0.05% |

Accuracy of Manual Setting with Presetting:

| | of setting | of corresponding range |
|------------------------------------|------------|------------------------|
| Voltage | ±0.6% | ±0.05% |
| Current | ±0.6% | ±0.05% |
| Resistance | ±1.4% | ±0.3% of current range |
| Power | ±1.4% | ±0.5% |
| Current Limitation | ±1.4% | ±0.3% |
| Trigger Voltage | ±1.4% | ±0.3% |
| Time Setting | ±1.4% | ±0.5% of B1 or B2 |
| Time ranges for internal modulator | | |
| | B1 | 100ms |
| | B2 | 1000ms |

Accuracy of Display:

| | of measured value (real value) | of corresponding range |
|---------|-----------------------------------|------------------------|
| Voltage | ±0.2% | ±0.05% |
| Current | ±0.2% | ±0.05% |

Accuracy of Analog Programming:

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0 ... 5V / 0 ... 10V for Current, Voltage, Power

| | of setting | of corresponding range |
|----------------------|--------------|------------------------|
| Voltage | ±0.2% | ±0.1% |
| Current | ±0.2% | ±0.1% |
| Power | ±2% | ±0.5% |
| Current Limitation * | ±1% | ±0.4% |
| Trigger Voltage * | ±1% | ±0.4% |

* only when option ZS08 is installed
 Input impedance of the analog inputs: > 10kΩ
 GND max. ±2V against negative load input ¹⁾

Accuracy of Analog Monitor Outputs: 0 ... 10V for Current, Voltage, Power ²⁾

| | of the analog signal of the real value | offset voltage |
|---------|---|----------------|
| Voltage | ±0.2% | ±15mV |
| Current | ±0.2% | ±15mV |
| Power | ±2% | ±30mV |

GND max. ±2V against negative load input ¹⁾
 Loading capacity minimum 2kΩ

Accuracy of Setting Programming via Data Interface:

| | of setting | of corresponding range |
|--------------------|---------------|-----------------------------|
| Voltage | ±0.2% | ±0.05% |
| Current | ±0.2% | ±0.05% |
| Resistance | ±1% | ±3% of current range |
| Power | ±1% | ±0.5% |
| Current Limitation | ±1% | ±0.3% |
| Trigger Voltage | ±1% | ±0.3% |
| Resolution Setting | 16 bit | |

Accuracy of Measurement, Reading via Data Interface:

| | of measured value (real value) | of corresponding range |
|------------------------|-----------------------------------|------------------------|
| Voltage | ±0.1% | ±0.05% |
| Current | ±0.2% | ±0.05% |
| Resolution Measurement | 18 bit | |
| Reading Rate | 330ms not triggerable | |

Accuracy of Measurement, Reading via Data Interface: Option ZS13

| | of measured value (real value) | of corresponding range |
|------------------------|--|------------------------|
| Voltage | ±0.2% | ±0.05% |
| Current | ±0.2% | ±0.05% |
| Resolution Measurement | 13 bit | |
| Reading Rate | min. 200µs (into memory) triggerable | |

Power

Nominal Power

Derating

Overload

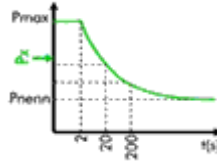
up to $T_A = 21\text{ °C}$

-1.2% / °C for $T_A > 21\text{ °C}$

3960 W



The height of the possible overload P_{max} depends on the temperature of the device and therefore on the dissipated power previously



The possible overload duration t depends on the height of the overload power P_x

Input Impedance

> 50 kΩ at deactivated load input

Input Capacitance

approx. 2μF / 1000W

Operating Temperature

5°C ... 40°C

External Control

- Load Switching
- Trigger input and output
- Range switching
- Mode switching
- Emergency shutdown

Protection Equipment

- Current and power limitation
- Over-voltage protection up to 110% of rated voltage ³⁾
- Protection against reverse polarity up to rated current (diode) ⁴⁾
- Over-temperature deactivation
- Transient protection

Minimum voltage



Full current up from approx. 1V.
Below 1V linear Derating.

Modulator



Puls t1: 100µs ... 1s
 Puls t2: 100µs ... 1s
 (in two ranges)
 Load level: each 0 ...
 100%

Rise and Fall Time ⁶⁾

80 µs

Parallel Operation

up to 3 devices in
 master-slave operation
 (hardware-controlled)

Cooling

infinitely variable
 controlled fans

Noise max. ⁷⁾

77 dB(A)

Case ⁸⁾, Weight

19" / 14 HU, 106 kg

Mains Supply

115/230V ± 10%, 50 ...
 60Hz

Power Consumption

695 VA

Permissible Operating Voltages: Negative Load Input - Case

Standard 125V AC
 with Option ZS06 500V AC ⁵⁾

Colour

Front Panel RAL7032 (pebble grey)
 Sides, Lid RAL7037 (stone grey)

Electric Safety

DIN EN 61010-1

EMC, CE-Mark

DIN EN 61326-1
 DIN EN 61000-3-2
 DIN EN 61000-3-3

1) 500 V with option ZS06 (except a Zero-Volt-Option is installed)

2) for units with 3 and 4 setting ranges the power monitoring signal is referred to the highest range

3) 101% for 800V devices

4) no protection against reverse polarity at installed Zero-Volt-Option

5) except a Zero-Volt-Option is installed

6) Rise and fall times are defined as 10%...90% and 90%...10% of the maximum current (measured in constant current mode - FAST)

7) measured at the front panel at 1m distance

8) 1HU = 44.45mm