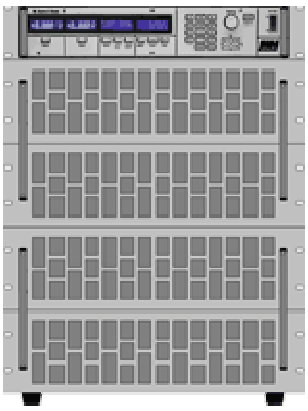
DATASHEET 1311-U-1V20C160

Output:

- Voltage: **-1 V ... 20 V**

- Current: **-160 A ... 160 A**

- Power: **3200 W**



The specified accuracies refer to an ambient temperature of
25°C ±5°C.
The specified accuracies are valid when the unit is connected to undisturbed voltages (Ripple and Noise <0.1%).
At voltages with higher disturbance values the accuracy can change for the worse.

Accuracy of Setting

	of setting	of corresponding range
Voltage	**±0.1%**	**±0.05%**
Current	**±0.2%**	**±0.05%**
Voltage Limitation	**±0.1%**	**±0.05%**
Current Limitation	**±0.2%**	**±0.05%**
Resolution Setting		**16 Bit**
Ripple		**±0.05%** RMS of range
Load Effect 0-100%		**0.1%**
Line Effect AC ±10%		**0.02%**

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Accuracy of Display:

	of measured value (real value)	of corresponding range
Voltage	**±0.1%**	**±0.05%**
Current	**±0.2%**	**±0.05%**
Resistance	**Quotient of voltage and current**	
Power	**Product of voltage and current**	

Accuracy of Analog Programming:
-5V ... 0 ... 5V / -10V ... 0 ... 10V for Current, Voltage

	of setting	of corresponding range
Voltage	**±0.2%**	**±0.15%**
Current	**±0.4%**	**±0.15%**
Voltage Limitation * (upper and lower)	**±0.2%**	**±0.15%**
Current Limitation * (upper and lower)	**±0.4%**	**±0.15%**

** only -10V ... 0 ... +10V*
Input impedance of the analog inputs: > 10kΩ
GND max. ±2V against negative output terminal[1)]

Accuracy of Analog Monitor Outputs:
-10V ... 0 ... 10V for Current, Voltage

	of analog signal of the real value	offset voltage
Voltage	**±0.1%**	**±15mV**
Current	**±0.2%**	**±15mV**

GND max. ±2V against negative output terminal[1)]
Minimum loading capacity 2kΩ

Accuracy of Measurement, Reading via Data Interface:

	of measured value (real value)	of corresponding range

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Voltage	**±0.1%**	**±0.05%**
Current	**±0.2%**	**±0.05%**
Resolution Measurement	**18 Bit**	
Reading Rate (free running)	**330ms** not triggerable	

Accuracy of Measurement, Reading via Data Interface: NL13 Option

	of measured value (real value)	of corresponding range
Voltage	**±0.15%**	**±0.07%**
Current	**±0.3%**	**±0.07%**
Resolution Measurement	**13 Bit**	
Reading Rate	**min. 200µs** (in memory) triggerable	

Power

Nominal Power	up to T_A = 21 °C
Derating	-1.2% / °C for T_A > 21 °C

Input Impedance	> 50 kΩ in standby
Operating Temperature	5°C ... 40°C
External Control Functions	Stand-by Trigger input and output Mode switching Emergency shutdown
Protection Equipment	Current and voltage limitation Over-temperature deactivation
Rise and Fall Time [2)]	**200 µs**
Parallel Operation	up to 3 devices in master-slave operation (hardware-controlled in current mode only)
Cooling	Current and temperature-controlled fans

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Dimension[3], Weight	**19" / 14 HU, 105 kg**
Mains Supply	**230/400 VAC -16A ± 10%** **50 … 60Hz**
Power Consumption	**5300 VA**
Electric Safety	DIN EN 61010-1
EMC, CE-Mark	DIN EN 61326-1 DIN EN 61000-3-2 DIN EN 61000-3-3
Measuring Device Category	CAT I

Permissible Operating Voltages: Negative Output Terminal- Case

±125V DC

Permissible Operating Voltages:
Analog Interface - Negative Output Terminal

Standard	±2V DC
with NL06 Option	±125V DC

Colour

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

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1) ±125V with NL06 Option

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

3) 1HU = 44.45mm

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