



Bench Top & Loads

Brochure



www.rnd-electronics.com

Bench Top Power Supply



Art. Nr.
RND 320-KA3005D

Input Voltage: 230V (±10%), 50Hz

Main Features

- Complete digital control
- 10 mV / 1 mA resolution
- Low noise and ripple
- CV / CC constant voltage and constant current mode
- 5 sets of parameters can be stored and recalled
- OCP and OVP settings, constant protection mode
- Output switch control
- Power-off memory function
- Keyboard lock function



Specifications

Voltage Range / Current Range	0-30V / 0-5A	
Load Regulation	Voltage: ≤0.01%+2mv	Current: ≤0.1%+5mA
Line Regulation	Voltage: ≤0.01%+3mv	Current: ≤0.1%+3mA
Setup Resolution	Voltage: 10mV	Current: 1mA
Setup Accuracy (25 °C + - 5 °C)	Voltage: ≤0.5%+20mV	Current: ≤0.5%+10mA
Ripple(20hz-20MHz)	Voltage: ≤2mVrms	Current: ≤5mArms
Temp. Coefficient	Voltage: ≤100ppm+10mV	Current: ≤100ppm+5mA
Read Back Accuracy	Voltage: 10mV	Current: 1mA
Read Back Temp. Coefficient	Voltage: ≤100ppm+10mv	Current: ≤100ppm+5mA
Reaction Time(10% Rated load)	Voltage: ≤100mS	Current: ≤100mS
Indoor use		
Altitude: ≤ 2000m		
Operation Environment	Ambient temperature : 0 °C ~ 40°C	
	Relative humidity: ≤ 80%	
Accessories	User manual, Euro Power cord (1.2m)	
Weight and Dimension	4kgs / 110(W)*156(H)*260(D)	
Storage Environment	Ambient temperature: -10 °C ~ 70 °C	
	Relative humidity: ≤ 70%	

Distrelec Schweiz AG, Grabenstrasse 6, 8606 Nänikon, Switzerland, T +41 44 944 99 11, info@distrelec.com, distrelec.com

Bench Top Power Supply



Art. Nr.
RND 320-KA3005P

Input Voltage: 230V (±10%), 50Hz

Main Features

- Complete programmable
- 10 mV / 1 mA resolution
- Low noise and ripple
- CV / CC constant voltage and constant current mode
- 5 sets of parameters can be stored and recalled
- OCP and OVP settings, constant protection mode
- Output switch control
- Power-off memory function
- Keyboard lock function
- Interfaces: RS232, USB



Specifications

Voltage Range / Current Range	0-30V	/	0-5A	adjustable
Load Regulation	Voltage: ≤0.01%+2mv	/	Current: ≤0.1%+5mA	
Line Regulation	Voltage: ≤0.01%+3mv	/	Current: ≤0.1%+3mA	
Setup Resolution	Voltage: 10mV	/	Current: 1mA	
Setup Accuracy (25 °C + - 5 °C)	Voltage: ≤0.5%+20mV	/	Current: ≤0.5%+10mA	
Ripple(20hz-20M)	Voltage: ≤2mVrms	/	Current: ≤5mArms	
Temp. Coefficient	Voltage: ≤100ppm+10mV	/	Current: ≤100ppm+5mA	
Read Back Accuracy	Voltage: 10mV	/	Current: 1mA	
Read Back Temp. Coefficient	Voltage: ≤100ppm+10mv	/	Current: ≤100ppm+5mA	
Reaction Time(10% Rated load)	Voltage: ≤100mS	/	Current: ≤100mS	
Indoor use				
Altitude: ≤ 2000m				
Operation Environment	Ambient temperature : 0 °C ~ 40°C			
	Relative humidity: ≤ 80%			
Accessories	User manual, 1x Euro power cord (1.2M), USB cord (1.2M), software CD			
Weight and Dimension	4.3 kg / 110(W)*156(H)*260(D)			
Storage Environment	Ambient temperature: -10 °C ~ 70 °C			
	Relative humidity: ≤ 70%			

Bench Top Power Supply



Art. Nr.
RND 320-KA3305P

Input Voltage: 230V (±10%)

Main Features

- Complete programmable
- 10 mV / 1 mA resolution
- Low noise and ripple
- CV / CC constant voltage and constant current modes
- Industrial grade, with load for a long time
- 5 sets of parameters can be stored and recalled
- Interfaces USB and RS232



Specifications

Voltage Range / Current Range	0-30V / 0-5A * 2, 5V / 3A * 1
Load Regulation	Voltage: ≤0.01%+2mV / Current: ≤0.02%+5mA
Line Regulation	Voltage: ≤0.01%+3mV / Current: ≤0.01%+3mA
Setup Resolution	Voltage: 10mV / Current: 1mA
Setup Accuracy (25 °C + - 5 °C)	Voltage: ≤0.5%+20mV / Current: ≤0.5%+15mA
Ripple(20hz-20M)	Voltage: ≤ 1.5mVrms / Current: ≤ 3mArms
Temp. Coefficient	Voltage: ≤0.1 % +10mV / Current: ≤0.1 % +5mA
Read Back Accuracy	Voltage: 10mV / Current: 1mA
Read Back Temp. Coefficient	Voltage: ≤100ppm+10mV / Current: ≤ 100ppm+5mA
Reaction Time(10% Rated load)	Voltage Rise: ≤ 100mS / Voltage Drop: ≤ 100mS(10% Rated load)
Operation Environment	Indoor use Altitude: ≤ 2000m Ambient temperature 0 ~ 40°C Relative humidity ≤ 80%
Storage Environment	Ambient temperature -10°C ~ 70°C Relative humidity ≤ 70%
Interfaces	RS232, USB
Accessories	User manual, 1x Euro power cord (1.2M), USB cord (1.2M), software CD
Weight and Dimension	9.4 kg / 380(W)*250(H)*145(D)

Distrelec Schweiz AG, Grabenstrasse 6, 8606 Nänikon, Switzerland, T +41 44 944 99 11, info@distrelec.com, distrelec.com

Bench Top Power Supply



Art. Nr.
RND 320-KD3005D

Input Voltage: 230V (±10%), 50Hz

Main Features

- Complete digital control
- 10 mV / 1 mA resolution
- Low noise and ripple
- CV / CC constant voltage and constant current mode
- 5 sets of parameters can be stored and recalled
- OCP and OVP settings, constant protection mode
- Output switch control
- Power-off memory function
- Keyboard lock function



Specifications

Voltage Range / Current Range	0-30V / 0-5A	
Load Regulation	Voltage: ≤0.01%+2mv	Current: ≤0.1%+5mA
Line Regulation	Voltage: ≤0.01%+3mv	Current: ≤0.1%+3mA
Setup Resolution	Voltage: 10mV	Current: 1mA
Setup Accuracy (25 °C + - 5 °C)	Voltage: ≤0.5%+20mV	Current: ≤0.5%+10mA
Ripple(20hz-20M)	Voltage: ≤2mVrms	Current: ≤5mArms
Temp. Coefficient	Voltage: ≤100ppm+10mV	Current: ≤100ppm+5mA
Read Back Accuracy	Voltage: 10mV	Current: 1mA
Read Back Temp. Coefficient	Voltage: ≤100ppm+10mv	Current: ≤100ppm+5mA
Reaction Time(10% Rated load)	Voltage: ≤100mS	Current: ≤100mS
Indoor use		
Altitude: ≤ 2000m		
Operation Environment	Ambient temperature : 0 °C ~ 40°C	
	Relative humidity: ≤ 80%	
Accessories	User manual, Euro Power cord (1.2m)	
Weight and Dimension	4kgs / 110(W)*156(H)*260(D)	
Storage Environment	Ambient temperature: -10 °C ~ 70 °C	
	Relative humidity: ≤ 70%	

Distrelec Schweiz AG, Grabenstrasse 6, 8606 Nänikon, Switzerland, T +41 44 944 99 11, info@distrelec.com, distrelec.com

Bench Top Power Supply



Art. Nr.
RND 320-KD3005P

Input Voltage: 230V (±10%)

Main Features

- Complete programmable
- Industrial grade, with load for a long time
- Encoder-controlled fine & coarse adjustment
- Intelligent temperature-controlled fan
- Compact design
- Constant current & constant voltage
- Current preset
- 4-digit display
- 10mV / 1 mA high accuracy and resolution
- Low noise and ripple
- Knob Lock function to avoid improper operation
- Interfaces: USB and RS232



Specifications

Voltage Range / Current Range	0-30V / 0-5A	
Load Regulation	Voltage: $\leq 0.01\% + 2\text{mV}$	Current: $\leq 0.1\% + 5\text{mA}$
Line Regulation	Voltage: $\leq 0.01\% + 3\text{mV}$	Current: $\leq 0.1\% + 3\text{mA}$
Setup Resolution	Voltage: 10mV	Current: 1mA
Setup Accuracy (25 °C + - 5 °C)	Voltage: $\leq 0.5\% + 20\text{mV}$	Current: $\leq 0.5\% + 10\text{mA}$
Ripple(20hz-20M)	Voltage: $\leq 2\text{mVrms}$	Current: $\leq 3\text{mArms}$
Temp. Coefficient	Voltage: $\leq 150\text{ppm}$	Current: $\leq 150\text{ppm}$
Read Back Accuracy	Voltage: 10mV	Current: 1mA
Read Back Temp. Coefficient	Voltage: $\leq 150\text{ppm}$	Current: $\leq 150\text{ppm}$
Reaction Time(10% Rated load)	Voltage: $\leq 100\text{mS}$	Current: $\leq 100\text{mS}$
Operation Environment	Indoor use Altitude: $\leq 2000\text{m}$ Ambient temperature 0 ~ 40°C Relative humidity $\leq 80\%$	
Interfaces	USB, RS232	
Accessories	User manual, Power cord (1.2M, 1*EURO plug), USB cable, software CD	
Weight and Dimension	4.82 kg / 110(W)*156(H)*260(D)	
Storage Environment	Ambient temperature -10°C ~ 70°C Relative humidity $\leq 70\%$	

Distrelec Schweiz AG, Grabenstrasse 6, 8606 Nänikon, Switzerland, T +41 44 944 99 11, info@distrelec.com, distrelec.com

Programmable Laboratory DC Power Supply



Art. Nr.
RND 320-KD3305P

Input Voltage: 230V (±10%)

Main Features

- Complete programmable
- 10 mV / 1 mA resolution
- Low noise and ripple
- CV / CC constant voltage and constant current modes
- Industrial grade, with load for a long time
- Over-Current Protection, output ON/OFF control and panel LOCK function
- Shutdown memory
- Series and parallel connections
- Interfaces: USB, RS232 & LAN



Specifications

Voltage Range / Current Range	0-30V / 0-5A * 2, 5V, 3.3V, 2.5V / 3A * 1
Load Regulation	Voltage: ≤0.01%+5mV / Current: ≤0.1%+10mA
Line Regulation	Voltage: ≤0.01%+3mV / Current: ≤0.1%+3mA
Setup Resolution	Voltage: 10mV / Current: 1mA
Setup Accuracy (25 °C + - 5 °C)	Voltage: ≤0.5%+20mV / Current: ≤0.5%+10mA
Ripple(20hz-20M)	Voltage: ≤ 2mVrms / Current: ≤ 3mArms
Temp. Coefficient	Voltage: 100ppm+10mV / Current: ≤100ppm+5mA
Read Back Accuracy	Voltage: 10mV / Current: 1mA
Read Back Temp. Coefficient	Voltage: ≤100ppm+10mV / Current: ≤ 100ppm+5mA
Reaction Time(10% Rated load)	Voltage Rise: ≤ 100mS / Voltage Drop: ≤ 100mS
Load Regulation of Parallel	Voltage: ≤0.1%+0.2V
Load Regulation of Series	Voltage: ≤0.1%+0.2V
CH3 Specifications	Voltage Accuracy: ±50mV Load Regulation: ±50mV
Interfaces	USB, RS232 & LAN
Accessories	User manual, Power cord (1.2M, 1*EURO plug), USB cord (1.2M), Software CD
Weight and Dimension	10.38 kgs / 146mm(W)*252mm(H)*375mm(D)

Programmable Electronic DC Load



Art. Nr.
RND 320-KEL102

Input Voltage: 230V

Main Features

- 0-120V, 0-30A, 150W

- Dynamic mode: up to 10KHZ

- Resolution of voltage and current: 0.1mV/0.1mA

- 4 working modes: CV/CC/CR/CW

- Remote sensing function

- Battery test, automatic test, OPP test, OCP test functions

- 100 sets of storage

- Short circuit function

- Current monitoring function

- Power off memory function

- Interfaces: USB, RS232 & LAN



Specification

Input Rating	Power: 150W / Voltage:0-120V / Current: 0-30A
CC Mode	Range: 0-3A / 0-30A Resolution: 0.1mA / 1mA Accuracy: ±(0.05% + 0.05% FS)
CV Mode	Range: 0-18V / 0-120V Resolution: 0.1mV/1mV Accuracy: ±(0.05% + 0.025% FS)
CR Mode	Range: 0.05Ω-7.5KΩ Resolution: 16 bit Accuracy: 0.015%+0.1S
CW Mode	Range: 150W Resolution: 0.01W Accuracy: ±(0.1% + 0.1% FS)
Slope	Range: 0-3A / 0-30A Rising: 0.0001-0.15A/us / 0.001-1.5A/us Falling: 0.0001-0.15A/us / 0.001-1.5A/us
Voltage Measurement	Range: 0-18V / 0-120V Resolution: 0.1mV/1mV Accuracy: ±(0.025% + 0.025% FS)
Current Measurement	Range: 0-3A / 0-30A Resolution: 0.1mA / 1mA Accuracy: ±(0.05% + 0.05% FS)
Power Measurement	Range: 150W Resolution: 0.01W Accuracy: ±(0.1% + 0.1% FS)

Distrelec Schweiz AG, Grabenstrasse 6, 8606 Nänikon, Switzerland, T +41 44 944 99 11, info@distrelec.com, distrelec.com

Programmable Electronic DC Load



Art. Nr.
RND 320-KEL103

Input Voltage: 230V

Main Features

- 0-120V, 0-30A, 150W
- Dynamic mode: up to 10KHZ
- Resolution of voltage and current: 0.1mV/0.1mA
- 4 working modes: CV/CC/CR/CW
- Remote sensing function
- Battery test, automatic test, OPP test, OCP test functions
- 100 sets of storage
- Short circuit function
- Current monitoring function
- Power off memory function
- Interfaces: USB, RS232 & LAN



Specification

Input Rating	Power: 300W / Voltage:0-120V / Current: 0-30A
CC Mode	Range: 0-3A / 0-30A Resolution: 0.1mA / 1mA Accuracy: $\pm(0.05\% + 0.05\% \text{ FS})$
CV Mode	Range: 0-18V / 0-120V Resolution: Accuracy: $\pm(0.05\% + 0.025\% \text{ FS})$
CR Mode	Range: 0.05 Ω -7.5K Ω Resolution: 16 bit Accuracy: 0.015%+0.1S
CW Mode	Range: 300W Resolution: 0.01W Accuracy: $\pm(0.1\% + 0.1\% \text{ FS})$
Slope	Range: 0-3A / 0-30A Rising: 0.0001-0.15A/us / 0.001-1.5A/us Falling: 0.0001-0.15A/us / 0.001-1.5A/us
Voltage Measurement	Range: 0-18V / 0-120V Resolution: 0.1mV/1mV Accuracy: $\pm(0.025\% + 0.025\% \text{ FS})$
Current Measurement	Range: 0-3A / 0-30A Resolution: 0.1mA / 1mA Accuracy: $\pm(0.05\% + 0.05\% \text{ FS})$
Power Measurement	Range: 300W Resolution: 0.01W Accuracy: $\pm(0.1\% + 0.1\% \text{ FS})$

Distrelec Schweiz AG, Grabenstrasse 6, 8606 Nänikon, Switzerland, T +41 44 944 99 11, info@distrelec.com, distrelec.com

Programmable Laboratory DC Power Supply



Art. Nr.
RND 320-KWR103

Input Voltage: 230V

Main Features

- 0-60V, 0-15A, 300W, wide range voltage & current for the users to choose
- 1mV/1mA high accuracy resolution programmable DC power supply
- Multiple communication rates
- Compact size, high power ratio
- Low ripple and noise, linear output
- No internal relay switch, no replay noise
- Full scale output without shifting gears and uninterrupted output
- Short circuit test environment, such as high-current contact life test
- Convenient fast recall
- Current, voltage and temperature protections
- Adjustable voltage rise slope
- Providing Labview and C++ driver and communication examples
- Interfaces: USB, RS232 & LAN

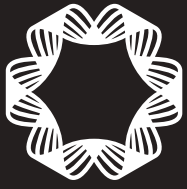


Specifications

Input Rating	Power: 300W / Voltage:0-60V / Current: 0-15A
Load Regulation	Voltage: $\leq 0.01\% + 1\text{mV}$ Current: $\leq 0.1\% + 3\text{mA}$
Line Regulation	Voltage: $\leq 0.01\% + 3\text{mV}$ Current: $\leq 0.1\% + 3\text{mA}$
Setup Resolution	Voltage: 1mV Current: 1mA
Read back Resolution	Voltage: 1mV Current: 1mA
Setup Accuracy (25 °C + - 5 °C)	Voltage: $\leq 0.5\% + 5\text{mV}$ Current: $\leq 0.5\% + 3\text{mA}$
Ripple (20-20M)	Voltage: $\leq 1\text{mVrms} + 0.03\%$ of current output Current: $\leq 5\text{mA rms}$
Voltage Rise Time	Voltage: $\leq 50\text{ms}$ Current: $\leq 50\text{ms}$
Temperature Coefficient	Voltage: $\leq 150\text{ppm}$ Current: $\leq 150\text{ppm}$
Read Back Temperature Coefficient	Voltage: $\leq 150\text{ppm}$ Current: $\leq 150\text{ppm}$
Accessories	User manual, 1 * EURO plug, software CD & USB cable
Interfaces	USB, RS232 & LAN
Weight and Dimension(W*D*H)	2.2 KGS / 87mm*175mm*290mm

Distrelec Schweiz AG, Grabenstrasse 6, 8606 Nänikon, Switzerland, T +41 44 944 99 11, info@distrelec.com, distrelec.com





RND
lab

www.rnd-electronics.com