DATASHEET
LOW-VOLTAGE POWER SUPPLIES – NTN SERIES

TABLETOP MODELS UP TO 4200W
RACK-MOUNTED MODELS UP TO 4200W – ON REQUEST

PRODUCT PROPERTIES AND DATA

FUNCTION:

The NTN series power supplies are highly stable double stabilized power supplies with low ripple.
LTN series power supplies are doubly stabilized. A thyristor pre-regulation is followed by a transistor regulation.

FuG Elektronik GmbH
Am Eschengrund 11
83135 Schechen

Germany

Tel: +49 8039 40077 0
Fax: +49 8039 40077 99

E-Mail: sales@fug-elektronik.de
Web: www.fug-elektronik.de

CHARACTERISTICS:

- → Robust design
- → Permanently short-circuit and flash-over proof
- → Can be operated indefinitely with rated current in case of a short-circuit
- → Inrush current limiting from 700W rated power
- → Sensor connections to compensate for voltage drops in the load lines. The stated value of the maximum output voltage always refers to the output terminals
- → Voltage and current control with automatic transfer and control mode display with LEDs
- → 4½-digit digital display for current and voltage in all power classes
- → Voltage and current are set using a ten-turn potentiometer with a lockable precision knob.
- → Set-point display via a button
- → Set-point adjustment possible with disabled output
- → Push-button switch for output voltage (OUTPUT)
- → Can be switched parallel or in series
- → Any load type, in principle, any passive two-terminal network is possible

We will be pleased to advise you – contact us at: sales@fug-elektronik.de or +49 8039 400 77 0.

POSSIBLE OPTIONS:

- → Coarse/fine-potentiometers (99% / 1%) for more accurate adjustment of voltage and / or current
- → Analog Programming/Interface
- → Analog Programming/Interface, floating
- → Computer interfaces -IEEE 488, RS 232, RS 422, Profibus DP, USB, LAN (more on request)
- → Higher stability
- → Lower stored energy

More options and special solutions on request. Some options may involve changes to the description of the unit - especially concerning the mechanical design.

HIGH-VOLTAGE POWER SUPPLY OPERATING MODES:

The power supplies can be operated in the LOCAL, ANALOG (optional) and DIGITAL (optional) operating modes.

TECHNICAL SPECIFICATIONS

All data given here apply for voltage and current control during internal operation (LOCAL) and refer to the maximum output values.

DIMENSIONS:

Depending on the output voltage and/or power, either a ½19" or 19" desktop housing. The maximum rated power for 19" desktop devices is 4200W. The height and depth of the low-voltage power supply depends on its power rating and output voltage. Detailed information can be found in the type table at the end of this document. A special version as 19" rack-mounted or with optional rack adapter is available.

ELECTRICAL SPECIFICATION:

Mains connection:	Up to 1400W rated power 230V ±10% 47 - 53Hz From 2800W rated power 400V ±10% 2-phase 47 - 53Hz, also refer to the details on the type plate. The N and PE (protective earth) connections are always required!
Protection class:	I
Overvoltage category:	II
Output:	Output values, voltage / current, see front panel or the equipment card
Short-circuit resistance:	The power supply is short-circuit and flash-over proof. The maximum current can be drawn at any output voltage, even in the event of a short-circuit.
Efficiency:	approx. 90%
Output polarity:	Isolated, each output connection can be earthed. Exception: If a non-isolated Analog Programming/Interface is installed, the A+ output pole is earthed.
Output isolation:	Each output pole can be maximally ±500V higher than PE. Exception: If a non-isolated Analog Programming/Interface is installed, the A+ output pole is earthed.
Voltage setting range:	Using the VOLTAGE potentiometer, approx. 0.1% to 100% of the rated value
Current setting range:	Using the CURRENT potentiometer, approx. 0.1% to 100% of the rated value
Setting resolution:	< ±1 x 10^{-3} of rated value with potentiometer on front panel < ±1 x 10^{-5} of rated value with fine potentiometer < ±1 x 10^{-4} of rated value with option interface
Displays:	DVM for voltage and current, range ±20000 LEDs for status messages voltage control / current control.
Reproducibility:	±1 x 10^{-3} of rated value with potentiometer on front panel ±1 x 10^{-4} of rated value with option interface
Residual ripple:	<1 x 10^{-4} of rated value +30mVss (measuring bandwidth 30Hz - 10MHz) <3 x 10^{-5} of rated value +10mV RMS
Control time:	
Voltage control:	<5ms, typical 2ms with load changes from 10% to 100% or 100% to 10%,
Current control:	<500ms with load changes <10%, depending on type Devices with a rated voltage from 65V briefly shut down in the event of greater load changes, the residual energy is released in an unregulated manner.
Setting time:	100ms to 500ms, depending on type, for changes in the output voltage from 10% to 90% or 90% from to 10%
Setting time at rated load:	<300ms for changes in the output voltage from 10% to 90% or 90% from to 10%,
Discharge time constant:	With output free of load, the discharge time constant can be between 2s and 60s, depending on type!
Inrush current limiting:	From 700W as standard
Sensor connections:	compensate for voltage drops in the load lines (this applies for devices up to 350V output voltage)

Control deviation:	with ±10% network change: < ±1 x 10^{-5} of rated value, for 0 to 100% load change: < ±2 x 10^{-4} of rated value, over 8 hours: < ±1 x 10^{-4} of rated value, with temperature changes: < ±1 x 10^{-4}/K of rated value

AMBIENT CONDITIONS:

Operation:	
Operation location:	Only for use in dry indoor areas
Temperature:	0°C bis +40°C
Humidity:	Max. relative humidity 80% up to 31ºC, decreasing linearly down to 50% relative humidity at 40ºC
Altitude:	Up to 2000m above sea level
Pollution degree:	1
Protection type:	IP20
Cooling:	The heat generated in the power supply unit is dissipated by convection or, in the case of high-power units, by forced ventilation.
Transport / Storage:	
Temperature:	-20°C bis +50°C
Humidity:	No precipitation and max. relative humidity of 80%
Storage rooms:	Dust-free and dry

FuG Elektronik GmbH
Am Eschengrund 11
83135 Schechen
Germany

Tel: +49 8039 40077 0
Fax: +49 8039 40077 99
E-Mail: sales@fug-elektronik.de
Web: www.fug-elektronik.de

DC POWER SUPPLY COMPONENTS

FRONT VIEW WITH CONTROLS:

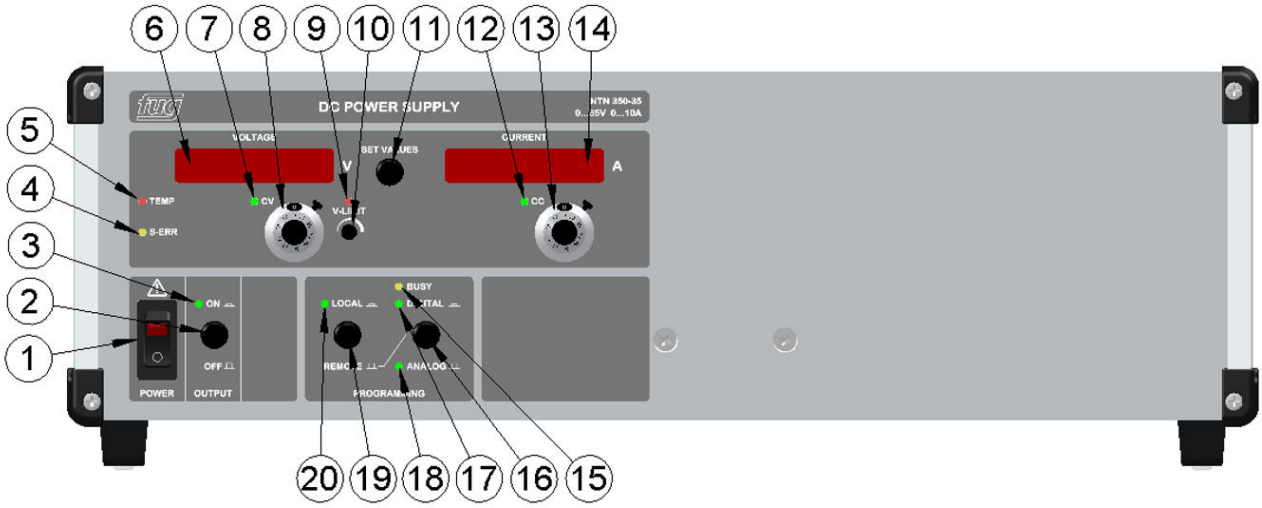

Figure: NTN 350 - 35. Different dimensions apply for DC power supplies with higher performance

1	AC power switch with indicator light Disconnects the power supply from the mains, two-pole switching	11	SET VALUES Switch displays between Set-point mode and Actual output mode, displays flash when in set point mode.
2	DC output ON (OUTPUT) There is no mains disconnection!	12	LED for constant current control mode (Constant Current)
3	DC output ON LED Lights up green when the controller and therefore the power stage is operating (OUTPUT ON)	13	Lockable ten-turn potentiometer for current adjustment
4	S-ERR LED for errors at the sensor connections or sensor lines	14	Current display flashing: Set point not flashing: Actual value
5	Over-temperature LED, internal device temperature too high, fan failure or contaminated fan. (Use is type-dependent)	15	(Optional) LED BUSY displays data traffic on the digital interface
6	Voltage display flashing: Set point; not flashing: Actual value	16	(Optional) Switching the operation mode between REMOTE/ANALOG and REMOTE/DIGITAL
7	LED for constant voltage control mode (Constant Voltage)	17	(Optional) LED indicating digital programming active
8	Lockable ten-turn potentiometer for voltage adjustment	18	(Optional) LED indicating Analog Programming/Interface active
9	LED for active voltage set-point limitation	19	(Optional) Switching the operation mode between LOCAL and REMOTE
10	Set-point limit adjustment for voltage V-LIMIT (can only be operated with a tool)	20	(Optional) LED indicating local control mode active

FuG Elektronik GmbH
Am Eschengrund 11
83135 Schechen
Germany

Tel: +49 8039 40077 0
Fax: +49 8039 40077 99
E-Mail: sales@fug-elektronik.de
Web: www.fug-elektronik.de

REAR VIEW WITH SINGLE-PHASE AC INPUT:

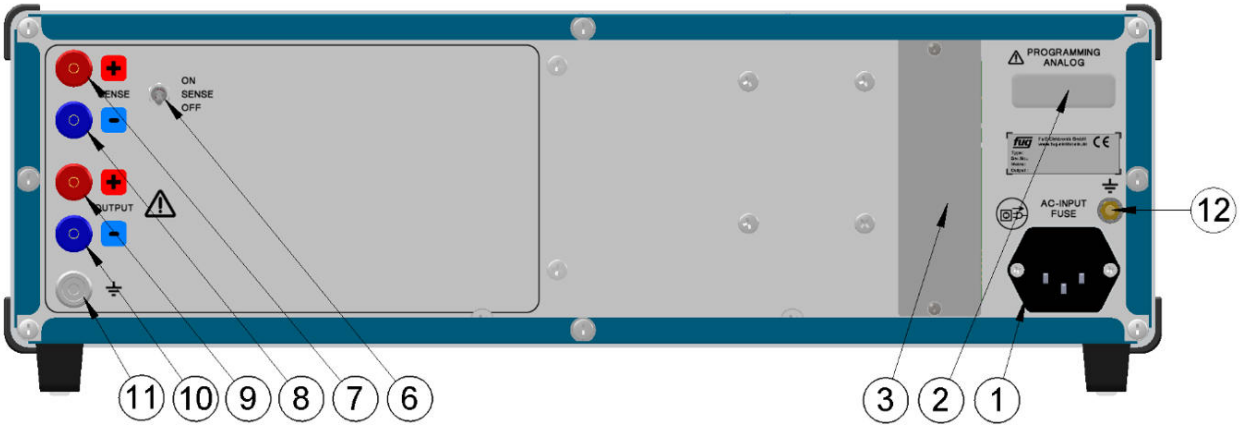

Figure: NTN 350 - 35. For DC power supplies with higher power or other voltages, other dimensions may apply. The elements' layout may vary from that shown here.

1	AC input with mains fuses Up to 700W: IEC connector (as shown) with integrated fuse, at 1400W, C20 mains cable in accordance with IEC60320-C20, equipped with automatic circuit breaker.
2	(Optional) 15-pin Sub-D connector for Analog Programming/Interface
3	(Optional) Slot for digital interface (e.g.: IEEE-488, RS232, USB, LAN, ...)
6	Switch for sensor (SENSE ON / OFF)
7	Positive connection for sensor line (SENSE +)
8	Negative connection for sensor line (SENSE -)
9	Positive output A+
10	Negative output A-
11	Earthing plug socket: This connection can be connected to the ground of the load; this applies for devices with an output current ≤20A
12	Earth bolt: This connection can be connected to the main PE

FuG Elektronik GmbH
Am Eschengrund 11
83135 Schechen
Germany

Tel: +49 8039 40077 0
Fax: +49 8039 40077 99

E-Mail: sales@fug-elektronik.de
Web: www.fug-elektronik.de

REAR VIEW WITH TWO-PHASE AC INPUT:

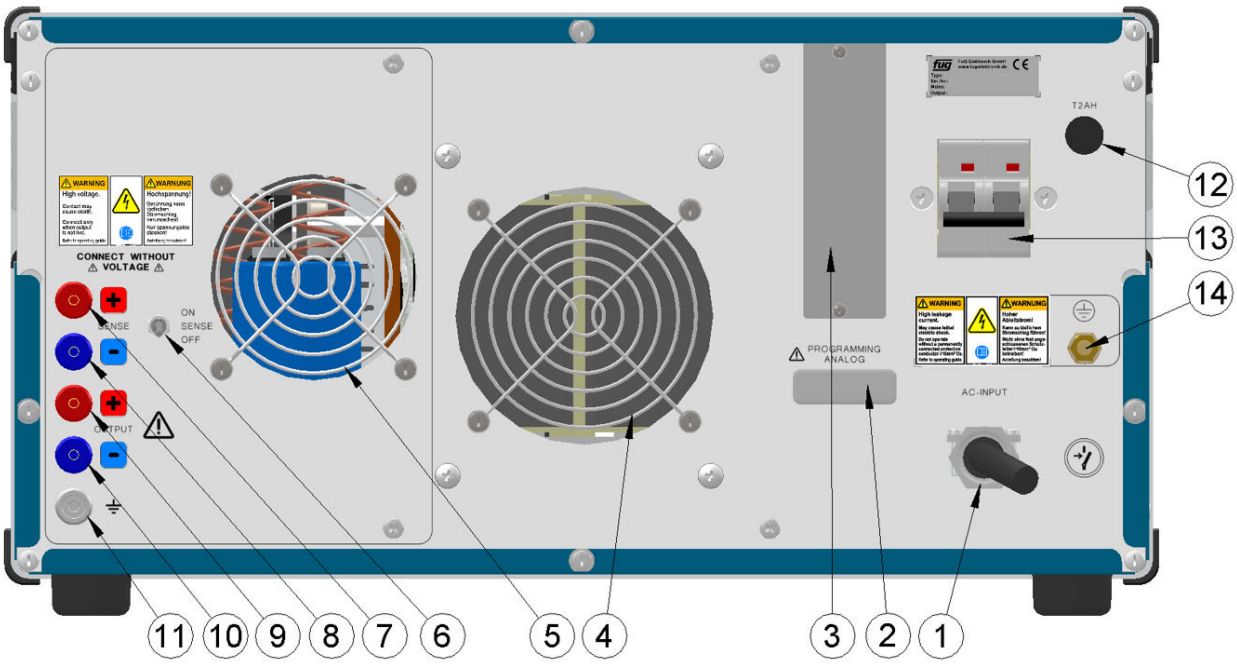

Figure: Sample NTN 2800 - 125. For DC power supplies with higher power or other voltages, other dimensions may apply. The elements' layout may vary from that shown here.

1	AC input with permanently installed cable for 2-phase mains connections.
2	(Optional) 15-pin Sub-D connector for Analog Programming/Interface
3	(Optional) Slot for digital interface (e.g.: IEEE-488, RS232, USB, LAN, ...)
4	Air outlet
5	Air outlet
6	Switch for sensor (SENSE ON / OFF)
7	Positive connection for sensor line (SENSE +)
8	Negative connection for sensor line (SENSE -)
9	Positive output A+
10	Negative output A-
11	Earthing plug socket: This connection can be connected to the ground of the load; this applies for devices with an output current ≤20A
12	Fuse holder for internal control fuse
13	Automatic circuit breaker, fuse holder
14	Earth bolt: The DC power supply must be professionally earthed using 10mm^2 cable to the earth bolt provided.

FuG Elektronik GmbH
Am Eschengrund 11
83135 Schechen
Germany

Tel: +49 8039 40077 0
Fax: +49 8039 40077 99
E-Mail: sales@fug-elektronik.de
Web: www.fug-elektronik.de

TYPE TABLE

Type	Voltage	Current	Width	Height	Depth	Weight
NTN 35 - 6,5	0 - 6,5 V	0 - 5 A	½19" / 222 mm	3 HE / 133 mm	350 mm	5 kg
NTN 140 - 6,5	0 - 6,5 V	0 - 10 A	½19" / 222 mm	3 HE / 133 mm	350 mm	8 kg
NTN 350 - 6,5	0 - 6,5 V	0 - 30 A	19" / 443 mm	3 HE / 133 mm	450 mm	18 kg
NTN 700 - 6,5	0 - 6,5 V	0 - 60 A	19" / 443 mm	4 HE / 177 mm	450 mm	30 kg
NTN 1400 - 6,5	0 - 6,5 V	0 - 120 A	19" / 443 mm	7 HE / 310 mm	550 mm	70 kg
NTN 2800 - 6,5 2)	0 - 6,5 V	0 - 250 A	19" / 443 mm	9 HE / 399 mm	650 mm	120 kg
NTN 4200 - 6,5 3)	0 - 6,5 V	0 - 400 A	19" / 600 mm	29 HE / 1500 mm	600 mm	300 kg
NTN 7000 - 6,5 3)	0 - 6,5 V	0 - 600 A	19" / 600 mm	38 HE / 2000 mm	800 mm	360 kg
NTN 10500 - 6,5 3)	0 - 6,5 V	0 - 1000 A	19" / 600 mm	38 HE / 2000 mm	800 mm	500 kg
NTN 14000 - 6,5 3)	0 - 6,5 V	0 - 1500 A	19" / 600 mm	38 HE / 2000 mm	800 mm	550 kg
NTN 21000 - 6,5 3)	0 - 6,5 V	0 - 2000 A	19" / 600 mm	38 HE / 2000 mm	800 mm	650 kg
NTN 28000 - 6,5 3)	0 - 6,5 V	0 - 2500 A	2 x 19" / 1200 mm	38 HE / 2000 mm	800 mm	1000 kg
NTN 35000 - 6,5 3)	0 - 6,5 V	0 - 3000 A	2 x 19" / 1200 mm	38 HE / 2000 mm	800 mm	1300 kg
NTN 35 - 12,5	0 - 12,5 V	0 - 2,5 A	½19" / 222 mm	3 HE / 133 mm	350 mm	5 kg
NTN 140 - 12,5	0 - 12,5 V	0 - 8 A	½19" / 222 mm	3 HE / 133 mm	350 mm	8 kg
NTN 350 - 12,5	0 - 12,5 V	0 - 20 A	19" / 443 mm	3 HE / 133 mm	350 mm	17 kg
NTN 700 - 12,5	0 - 12,5 V	0 - 50 A	19" / 443 mm	4 HE / 177 mm	450 mm	29 kg
NTN 1400 - 12,5	0 - 12,5 V	0 - 80 A	19" / 443 mm	4 HE / 177 mm	550 mm	50 kg
NTN 2800 - 12,5 2)	0 - 12,5 V	0 - 150 A	19" / 443 mm	7 HE / 310 mm	650 mm	110 kg
NTN 4200 - 12,5 2)	0 - 12,5 V	0 - 250 A	19" / 443 mm	9 HE / 399 mm	650 mm	150 kg
NTN 7000 - 12,5 3)	0 - 12,5 V	0 - 500 A	19" / 600 mm	38 HE / 2000 mm	800 mm	340 kg
NTN 10500 - 12,5 3)	0 - 12,5 V	0 - 800 A	19" / 600 mm	38 HE / 2000 mm	800 mm	480 kg
NTN 14000 - 12,5 3)	0 - 12,5 V	0 - 1000 A	19" / 600 mm	38 HE / 2000 mm	800 mm	520 kg
NTN 21000 - 12,5 3)	0 - 12,5 V	0 - 1500 A	19" / 600 mm	38 HE / 2000 mm	800 mm	600 kg
NTN 28000 - 12,5 3)	0 - 12,5 V	0 - 2000 A	19" / 600 mm	38 HE / 2000 mm	800 mm	900 kg
NTN 35000 - 12,5 3)	0 - 12,5 V	0 - 2500 A	2 x 19" / 1200 mm	38 HE / 2000 mm	800 mm	1300 kg
NTN 50000 - 12,5 3)	0 - 12,5 V	0 - 4000 A	2 x 19" / 1200 mm	38 HE / 2000 mm	800 mm	1500 kg
NTN 35 - 20	0 - 20 V	0 - 1,5 A	½19" / 222 mm	3 HE / 133 mm	350 mm	5 kg
NTN 140 - 20	0 - 20 V	0 - 6 A	½19" / 222 mm	3 HE / 133 mm	350 mm	8 kg
NTN 350 - 20	0 - 20 V	0 - 15 A	19" / 443 mm	3 HE / 133 mm	350 mm	17 kg
NTN 700 - 20	0 - 20 V	0 - 30 A	19" / 443 mm	4 HE / 177 mm	450 mm	26 kg
NTN 1400 - 20	0 - 20 V	0 - 60 A	19" / 443 mm	4 HE / 177 mm	550 mm	50 kg
NTN 2800 - 20 2)	0 - 20 V	0 - 120 A	19" / 443 mm	7 HE / 310 mm	550 mm	80 kg
NTN 4200 - 20 2)	0 - 20 V	0 - 200 A	19" / 443 mm	9 HE / 399 mm	550 mm	110 kg
NTN 7000 - 20 3)	0 - 20 V	0 - 300 A	19" / 600 mm	29 HE / 1500 mm	600 mm	300 kg
NTN 10500 - 20 3)	0 - 20 V	0 - 500 A	19" / 600 mm	38 HE / 2000 mm	800 mm	440 kg
NTN 14000 - 20 3)	0 - 20 V	0 - 600 A	19" / 600 mm	38 HE / 2000 mm	800 mm	480 kg
NTN 21000 - 20 3)	0 - 20 V	0 - 800 A	19" / 600 mm	38 HE / 2000 mm	800 mm	580 kg
NTN 28000 - 20 3)	0 - 20 V	0 - 1200 A	19" / 600 mm	38 HE / 2000 mm	800 mm	800 kg
NTN 35000 - 20 3)	0 - 20 V	0 - 1500 A	19" / 600 mm	38 HE / 2000 mm	800 mm	1200 kg
NTN 50000 - 20 3)	0 - 20 V	0 - 2500 A	2 x 19" /1200 mm	38 HE / 2000 mm	800 mm	1400 kg
NTN 35 - 35	0 - 35 V	0 - 1 A	½19" / 222 mm	3 HE / 133 mm	350 mm	5 kg
NTN 140 - 35	0 - 35 V	0 - 4 A	½19" / 222 mm	3 HE / 133 mm	350 mm	8 kg
NTN 350 - 35	0 - 35 V	0 - 10 A	19" / 443 mm	3 HE / 133 mm	350 mm	17 kg
NTN 700 - 35	0 - 35 V	0 - 20 A	19" / 443 mm	4 HE / 177 mm	350 mm	27 kg

FuG Elektronik GmbH
Am Eschengrund 11
83135 Schechen

Germany

Tel: +49 8039 40077 0
Fax: +49 8039 40077 99

E-Mail: sales@fug-elektronik.de
Web: www.fug-elektronik.de

NTN	1400 - 35		0 - 35 V	0 - 40 A	19" / 443 mm	4 HE / 177 mm	550 mm	47 kg
NTN	2800 - 35	2)	0 - 35 V	0 - 80 A	19" / 443 mm	7 HE / 310 mm	550 mm	70 kg
NTN	4200 - 35	2)	0 - 35 V	0 - 120 A	19" / 443 mm	9 HE / 399 mm	550 mm	110 kg
NTN	7000 - 35	3)	0 - 35 V	0 - 200 A	19" / 600 mm	20 HE / 1100 mm	600 mm	280 kg
NTN	10500 - 35	3)	0 - 35 V	0 - 300 A	19" / 600 mm	29 HE / 1500 mm	600 mm	420 kg
NTN	14000 - 35	3)	0 - 35 V	0 - 400 A	19" / 600 mm	38 HE / 2000 mm	800 mm	460 kg
NTN	21000 - 35	3)	0 - 35 V	0 - 600 A	19" / 600 mm	38 HE / 2000 mm	800 mm	530 kg
NTN	28000 - 35	3)	0 - 35 V	0 - 800 A	19" / 600 mm	38 HE / 2000 mm	800 mm	750 kg
NTN	35000 - 35	3)	0 - 35 V	0 - 1000 A	19" / 600 mm	38 HE / 2000 mm	800 mm	950 kg
NTN	70000 - 35	3)	0 - 35 V	0 - 2000 A	2 x 19" / 1200 mm	38 HE / 2000 mm	800 mm	1500 kg
NTN	35 - 65		0 - 65 V	0 - 500 mA	½19" / 222 mm	3 HE / 133 mm	350 mm	5 kg
NTN	140 - 65		0 - 65 V	0 - 2 A	½19" / 222 mm	3 HE / 133 mm	350 mm	8 kg
NTN	350 - 65		0 - 65 V	0 - 5 A	19" / 443 mm	3 HE / 133 mm	350 mm	15 kg
NTN	700 - 65		0 - 65 V	0 - 10 A	19" / 443 mm	4 HE / 177 mm	350 mm	24 kg
NTN	1400 - 65		0 - 65 V	0 - 20 A	19" / 443 mm	4 HE / 177 mm	450 mm	42 kg
NTN	2800 - 65	2)	0 - 65 V	0 - 40 A	19" / 443 mm	5 HE / 221 mm	550 mm	55 kg
NTN	4200 - 65	2)	0 - 65 V	0 - 60 A	19" / 443 mm	9 HE / 399 mm	550 mm	110 kg
NTN	7000 - 65	3)	0 - 65 V	0 - 100 A	19" / 600 mm	20 HE / 1100 mm	600 mm	280 kg
NTN	10500 - 65	3)	0 - 65 V	0 - 150 A	19" / 600 mm	29 HE / 1500 mm	600 mm	390 kg
NTN	14000 - 65	3)	0 - 65 V	0 - 200 A	19" / 600 mm	38 HE / 2000 mm	800 mm	440 kg
NTN	21000 - 65	3)	0 - 65 V	0 - 300 A	19" / 600 mm	38 HE / 2000 mm	800 mm	510 kg
NTN	28000 - 65	3)	0 - 65 V	0 - 400 A	19" / 600 mm	38 HE / 2000 mm	800 mm	720 kg
NTN	35000 - 65	3)	0 - 65 V	0 - 500 A	19" / 600 mm	38 HE / 2000 mm	800 mm	900 kg
NTN	70000 - 65	3)	0 - 65 V	0 - 1000 A	2 x 19" / 1200 mm	38 HE / 2000 mm	800 mm	1400 kg
NTN	700 - 125		0 - 125 V	0 - 5 A	19" / 443 mm	4 HE / 177 mm	350 mm	24 kg
NTN	1400 - 125		0 - 125 V	0 - 10 A	19" / 443 mm	4 HE / 177 mm	450 mm	42 kg
NTN	2800 - 125	2)	0 - 125 V	0 - 20 A	19" / 443 mm	5 HE / 221 mm	550 mm	55 kg
NTN	4200 - 125	2)	0 - 125 V	0 - 30 A	19" / 443 mm	9 HE / 399 mm	550 mm	110 kg
NTN	7000 - 125	3)	0 - 125 V	0 - 50 A	19" / 600 mm	20 HE / 1100 mm	600 mm	250 kg
NTN	10500 - 125	3)	0 - 125 V	0 - 80 A	19" / 600 mm	29 HE / 1500 mm	600 mm	300 kg
NTN	14000 - 125	3)	0 - 125 V	0 - 100 A	19" / 600 mm	29 HE / 1500 mm	600 mm	400 kg
NTN	21000 - 125	3)	0 - 125 V	0 - 150 A	19" / 600 mm	38 HE / 2000 mm	800 mm	490 kg
NTN	28000 - 125	3)	0 - 125 V	0 - 200 A	19" / 600 mm	38 HE / 2000 mm	800 mm	680 kg
NTN	35000 - 125	3)	0 - 125 V	0 - 250 A	19" / 600 mm	38 HE / 2000 mm	800 mm	850 kg
NTN	50000 - 125	3)	0 - 125 V	0 - 400 A	19" / 600 mm	38 HE / 2000 mm	800 mm	1200 kg
NTN	100000 - 125	3)	0 - 125 V	0 - 800 A	2 x 19" / 1200 mm	38 HE / 2000 mm	800 mm	1700 kg
NTN	700 - 200		0 - 200 V	0 - 3 A	19" / 443 mm	4 HE / 177 mm	350 mm	24 kg
NTN	1400 - 200		0 - 200 V	0 - 6 A	19" / 443 mm	4 HE / 177 mm	450 mm	42 kg
NTN	2800 - 200	2)	0 - 200 V	0 - 12 A	19" / 443 mm	5 HE / 221 mm	550 mm	55 kg
NTN	4200 - 200	2)	0 - 200 V	0 - 20 A	19" / 443 mm	9 HE / 399 mm	550 mm	90 kg
NTN	7000 - 200	3)	0 - 200 V	0 - 30 A	19" / 600 mm	20 HE / 1100 mm	600 mm	240 kg
NTN	10500 - 200	3)	0 - 200 V	0 - 50 A	19" / 600 mm	29 HE / 1500 mm	600 mm	360 kg
NTN	14000 - 200	3)	0 - 200 V	0 - 60 A	19" / 600 mm	29 HE / 1500 mm	600 mm	400 kg
NTN	21000 - 200	3)	0 - 200 V	0 - 100 A	19" / 600 mm	38 HE / 2000 mm	800 mm	490 kg
NTN	28000 - 200	3)	0 - 200 V	0 - 120 A	19" / 600 mm	38 HE / 2000 mm	800 mm	650 kg
NTN	35000 - 200	3)	0 - 200 V	0 - 150 A	19" / 600 mm	38 HE / 2000 mm	800 mm	800 kg
NTN	50000 - 200	3)	0 - 200 V	0 - 250 A	19" / 600 mm	38 HE / 2000 mm	800 mm	1200 kg
NTN	100000 - 200	3)	0 - 200 V	0 - 500 A	2 x 19" / 1200 mm	38 HE / 2000 mm	800 mm	1600 kg
NTN	700 - 350		0 - 350 V	0 - 2 A	19" / 443 mm	4 HE / 177 mm	350 mm	24 kg
NTN	1400 - 350		0 - 350 V	0 - 4 A	19" / 443 mm	4 HE / 177 mm	450 mm	42 kg

NTN	2800	-	350	2)	0	-	350	V	0	-	8	A	19" / 443	mm	5 HE / 221	mm	550	mm	55	kg
NTN	4200	-	350	2)	0	-	350	V	0	-	12	A	19" / 443	mm	9 HE / 399	mm	550	mm	90	kg
NTN	7000	-	350	3)	0	-	350	V	0	-	20	A	19" / 600	mm	20 HE / 1100	mm	600	mm	240	kg
NTN	10500	-	350	3)	0	-	350	V	0	-	30	A	19" / 600	mm	29 HE / 1500	mm	600	mm	275	kg
NTN	14000	-	350	3)	0	-	350	V	0	-	40	A	19" / 600	mm	29 HE / 1500	mm	600	mm	400	kg
NTN	21000	-	350	3)	0	-	350	V	0	-	60	A	19" / 600	mm	38 HE / 2000	mm	800	mm	490	kg
NTN	28000	-	350	3)	0	-	350	V	0	-	80	A	19" / 600	mm	38 HE / 2000	mm	800	mm	650	kg
NTN	35000	-	350	3)	0	-	350	V	0	-	100	A	19" / 600	mm	38 HE / 2000	mm	800	mm	800	kg
NTN	70000	-	350	3)	0	-	350	V	0	-	200	A	2 x 19" / 1200	mm	38 HE / 2000	mm	800	mm	1350	kg
NTN	100000	-	350	3)	0	-	350	V	0	-	300	A	2 x 19" / 1200	mm	38 HE / 2000	mm	800	mm	1600	kg

3) two phase mains connection
*) With polarity reversal switch these units will be 2 HU higher.
**) With polarity reversal swich these units will be 100mm deeper.
***) The dimensions are valid for the power part. The high voltage part is housed in a separate oil filled container. Weight stated: Power part / High voltage container

All specifications are subject to change without further notice.

Please feel free to contact our sales team for any further questions:

Mail: sales@fug-elektronik.de

Phone: +49 8039 400 77 0