

# 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.

### 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**

### 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.

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### 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 1/2 19" 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 $\pm 10\%$ 47 - 53Hz From 2800W rated power 400V $\pm 10\%$ 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 $\pm 500V$ 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:	$< \pm 1 \times 10^{-3}$ of rated value with potentiometer on front panel $< \pm 1 \times 10^{-5}$ of rated value with fine potentiometer $< \pm 1 \times 10^{-4}$ of rated value with option interface
Displays:	DVM for voltage and current, range $\pm 20000$ LEDs for status messages voltage control / current control.
Reproducibility:	$\pm 1 \times 10^{-3}$ of rated value with potentiometer on front panel $\pm 1 \times 10^{-4}$ of rated value with option interface
Residual ripple:	$< 1 \times 10^{-4}$ of rated value +30mVss (measuring bandwidth 30Hz - 10MHz) $< 3 \times 10^{-5}$ of rated value +10mV RMS
<b>Control time:</b>	
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)

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Control deviation:	with $\pm 10\%$ network change: $< \pm 1 \times 10^{-5}$ of rated value, for 0 to 100% load change: $< \pm 2 \times 10^{-4}$ of rated value, over 8 hours: $< \pm 1 \times 10^{-4}$ of rated value, with temperature changes: $< \pm 1 \times 10^{-4}/K$ of rated value
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### AMBIENT CONDITIONS:

<b>Operation:</b>	
Operation location:	Only for use in dry indoor areas
Temperature:	0°C bis +40°C
Humidity:	Max. relative humidity 80% up to 31°C, decreasing linearly down to 50% relative humidity at 40°C
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.
<b>Transport / Storage:</b>	
Temperature:	-20°C bis +50°C
Humidity:	No precipitation and max. relative humidity of 80%
Storage rooms:	Dust-free and dry

### DC POWER SUPPLY COMPONENTS

#### FRONT VIEW WITH CONTROLS:

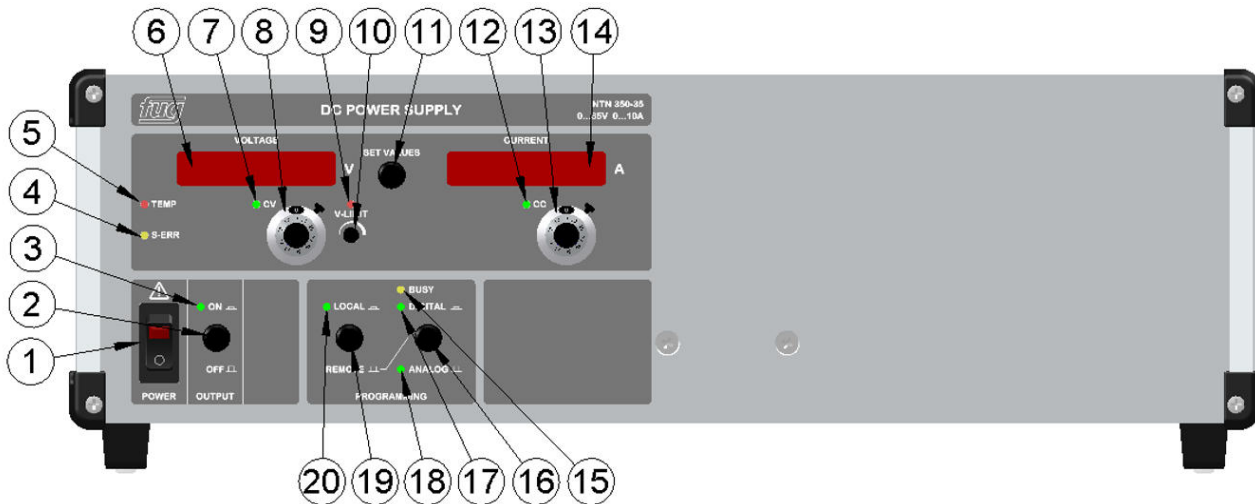


Figure: NTN 350 - 35. Different dimensions apply for DC power supplies with higher performance

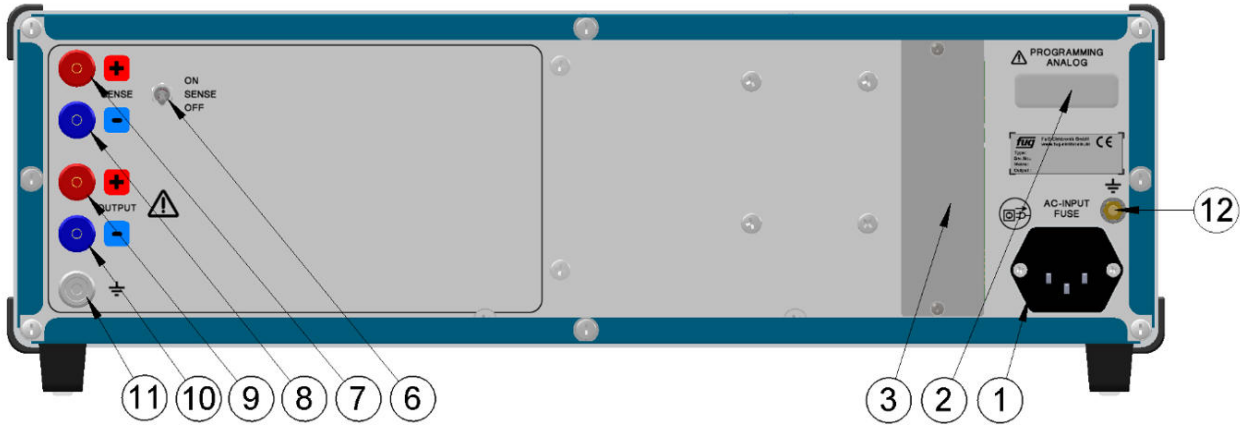
1	AC power switch with indicator light Disconnects the power supply from the mains, two-pole switching	11	SET VALUES Switch displays between Set-point mode and Actual output mode, displays flash when in set point mode.
2	DC output ON (OUTPUT) There is no mains disconnection!	12	LED for constant current 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

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### 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.

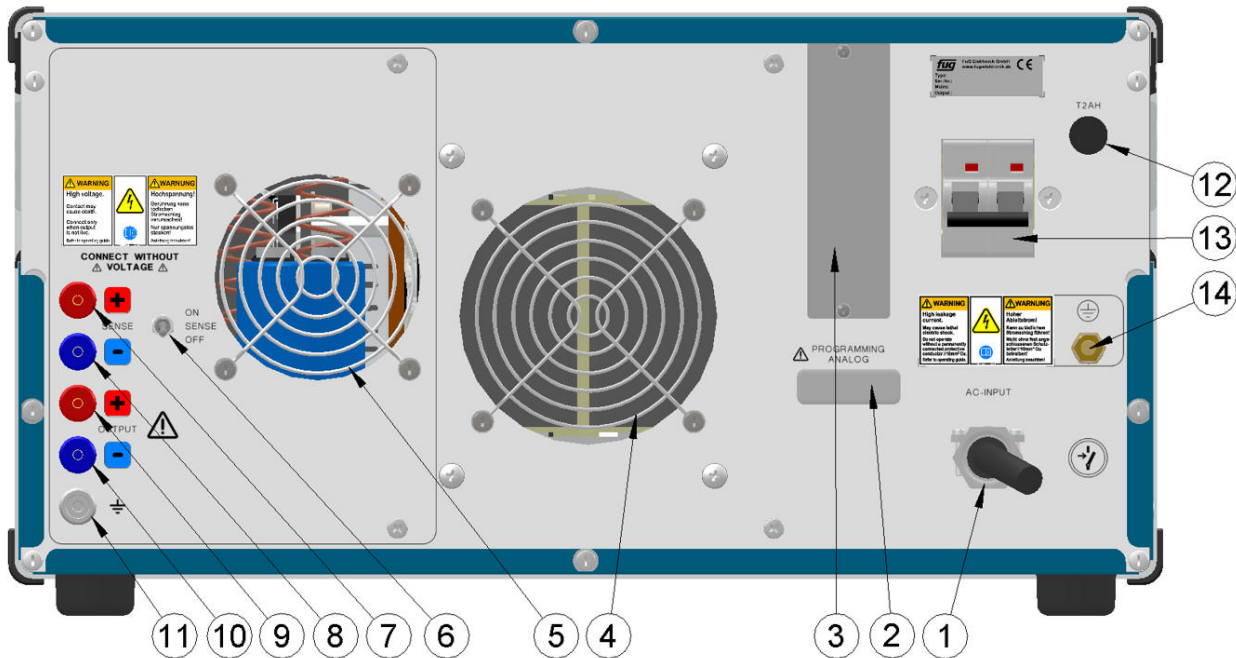
1	AC input with mains fuses Up to 700W: IEC connector (as shown) with integrated fuse, at 1400W, C20 mains cable in accordance with IEC60320-C20, equipped with automatic circuit breaker.
2	(Optional) 15-pin Sub-D connector for Analog Programming/Interface
3	(Optional) Slot for digital interface (e.g.: 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 $\leq 20A$
12	Earth bolt: This connection can be connected to the main PE

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### 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 $\leq 20A$
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 <sup>2</sup> cable to the earth bolt provided.

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### 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



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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

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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 switch 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