switching power supplies rotary current 1100

design	**125.5 x 125.2 x 100mm up to 276.0 x 125.2 x 100mm**	
switching power supply	DC output voltage	**24V DC**

- ✓ **wide AC input voltage range**
- ✓ **protected against short-circuit, overcurrent, overvoltage and overheating**
- ✓ **mountable on 35mm-DIN-rail**
- ✓ **LED-display for power on**

compact and light
UL homologated

description

Due to the high power density which is achieved, switching power supply units are especially used, in order to cut down on bulk and material.
Furthermore, when compared to conventional power supply units, they offer better output voltage stability with a degree of efficiency which is the same or higher.
In a way wich is different from conventional power supply units with a small output power, switching power supplies with a small output power have high degree of efficiency.
Conventional, linear controlled power supply units which contain a heavy transformer with an iron core cause additional losses in the linear regulator.
The output voltage can be controlled between +24 and +28V DC using the "+V Adj" potentiometer.

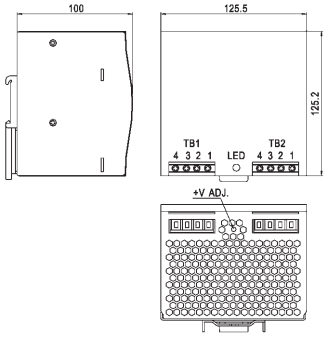
application examples

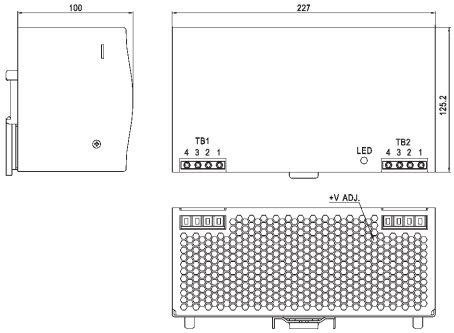
- DC voltage supply from the mains
- power supply units for diode lasers
- arc-welding devices
- charging devices for larger accumulators
- power supply devices for the pump light sources for solid-state lasers (flash lamps and arc lamps)

power supplies

1100 switching power supplies rotary current

article-no.	NCKB1001	NCLB2001
output DC voltage	24V DC	24V DC
output nominal current	10A	20A
output power	240W	480W

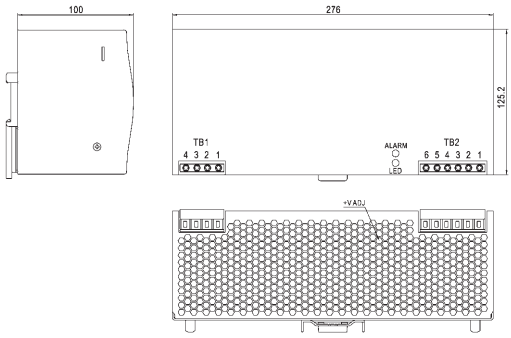




TECHNICAL DATA

output DC voltage	24V DC	24V DC
adjustment range	24 ... 28V DC	24 ... 28V DC
output nominal current	10A	20A
output power	240W	480W
input voltag range AC	340 ... 550V	340 ... 550V AC
frequency	47 ... 63Hz	47 ... 63Hz
input nominal current at 400V AC	0.95A	1.7A
leakage current at 530V AC	< 3.5mA	< 3.5mA
operating mode display	LED green	LED green
overload protection	105% ... 150% of the output power	105% ... 150% of the output power
overvoltage protection	30 ... 36V DC	30 ... 36V DC
over-temperature protection	100°C ±5°C, cut-off switching power supply	110°C ± 5°C, cut-off switching power supply
design (LxWxH)	125.5x125.2x100mm	227x125.2x100mm
housing material	aluminium	aluminium
weight	1.3kg	2.5kg
temperature (operating / storage)	-20 ... +70°C / -40 ... +85°C	-20 ... +70°C / -40 ... +85°C
temperature coefficient	± 0.03% / °C (0 ... 50°C)	± 0.03% / °C (0 ... 50°C)
air humidity (operating / storage)	20 ... 90% / 10 ... 95%	20 ... 90% / 10 ... 95%
system of protection (EN 60529)	IP20	IP20
standards	UL 508, EN 60950	UL 508, EN 60950
EMC	EN 55022 (CISPR22) Class B, EN 610000-4-2,3,4,5,6,8,11, ENV 50204, EN 61000-6-2, EN 50082-2	EN 55022 (CISPR22) Class B, EN 610000-4-2,3,4,5,6,8,11, ENV 50204, EN 61000-6-2, EN 50082-2
connection	connecting terminals	connecting terminals
mounting	35mm DIN-rail	35mm DIN-rail
notes	-	2-phase operation at low load possible

article-no.	**NCLG4001**
output DC voltage	**24V DC**
output nominal current	**40A**
output power	**960W**



TECHNICAL DATA

output DC voltage	24V DC
adjustment range	24 ... 28V DC
output nominal current	40A
output power	960W
input voltag range AC	340 ... 550V AC
frequency	47 ... 63Hz
input nominal current at 400V AC	2A
leakage current at 530V AC	< 3.5mA
operating mode display	LED green
overload protection	105% ... 125% of the output power
overvoltage protection	30 ... 36V DC
over-temperature protection	110°C ±5°C, cut-off switching power supply
design (LxWxH)	276x125.2x100mm
housing material	aluminium
weight	0.8kg
temperature (operating / storage)	-20 ... +60°C / -40 ... +85°C
temperature coefficient	±0.03% / °C (0 ... 50°C)
air humidity (operating / storage)	20 ... 90% / 10 ... 95%
system of protection (EN 60529)	IP20
standards	UL 508, EN 60950
EMC	EN 55022 (CISPR22) Class B, EN 610000-4-2,3,4,5,6,8,11, ENV 50204, EN 61000-6-2, EN 50082-2
connection	connecting terminals
mounting	35mm DIN-rail

1100 switching power supplies rotary current

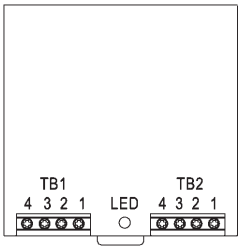
connection NCKB1001

terminals TB1

terminal 1:	PE
terminal 2:	input AC L3
terminal 3:	input AC L2
terminal 4:	input AC L1

terminals TB2

terminal 1:	output DC (+24V)
terminal 2:	output DC (+24V)
terminal 3:	output DC (0V)
terminal 4:	output DC (0V)



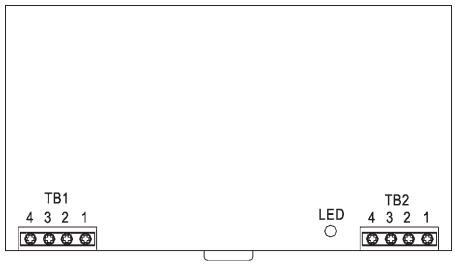
connection NCLB2001

terminals TB1

terminal 1:	input AC L1
terminal 2:	input AC L2
terminal 3:	input AC L3
terminal 4:	PE

terminals TB2

terminal 1:	output DC (+24V)
terminal 2:	output DC (+24V)
terminal 3:	output DC (0V)
terminal 4:	output DC (0V)



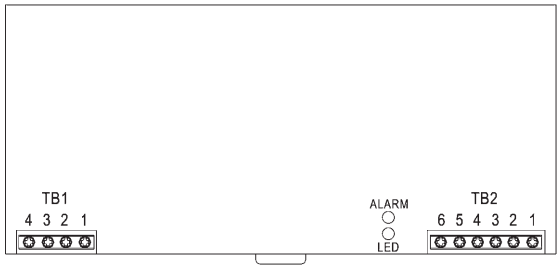
connection NCLG4001

terminals TB1

terminal 1:	input AC L1
terminal 2:	input AC L2
terminal 3:	input AC L3
terminal 4:	PE

terminals TB2

terminal 1:	output DC (+24V)
terminal 2:	output DC (+24V)
terminal 3:	output DC (+24V)
terminal 4:	output DC (0V)
terminal 5:	output DC (0V)
terminal 6:	output DC (0V)



Warning: Never use these devices in applications where the safety of a person depends on their functionality!