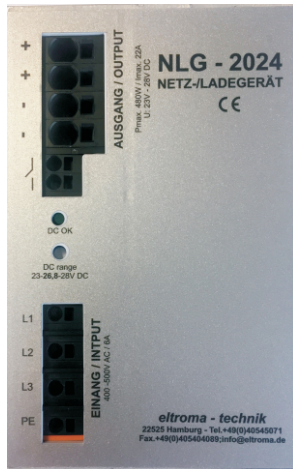


# NETZ- / LADEGERÄTE NLG-xx24



- Power supply-/ charging unit ( batteries)
- IU- characteristic (DIN 41773)
- Rated power 480W, 960W
- working in parallel mode
- Short circuit proof
- Voltage range( 85 - 264V / 320 - 575V AC
- DC-OK <output 1xNO kontakt

## Application

The power supply and battery charging units of the product line NLG-xx24 are to be applied as power supply and as IU-chargers. In both cases, the charge takes place after one IU characteristic according to DIN41 773. On charging operation the units can be used for different types of batteries. The basic load of consumers connected in parallel to the battery can be supplied, whereby the remaining current up till the unit's nominal current serves for charging or trickle charging of the battery.

## Design

The units are delivered as metal case for DIN RAIL (TS35).

The unit work as a primary switching modul.

Further advantages are the desirable mounting position, little need of space and little loss of heat. The potentiometer for adjustment to the output voltage permit an easy adjustment to the different electrical requirements. By the constant current regulation the unit is short circuit proof, it takes place an automatic restarting after short-circuit and temperature rise.

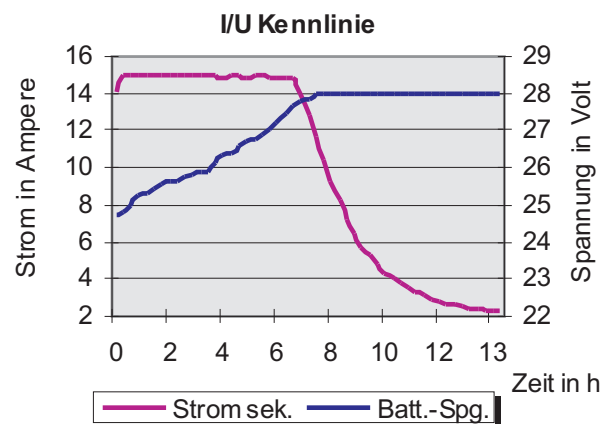
In the load enterprise with **IU - characteristic** flows first - in the case of unloaded battery - a constant current (**I - characteristic**) of approx. 20 / 40A, depending upon size of unit. The rated current is exceeded by the regulated current limiting at no time.

Forwards reach the adjusted load conclusion tension drops the current. At the same time the tension up to the load conclusion tension and the current rise sink further up to the value off (**U - characteristic**), which is needed for charge preservation and for the supply for the attached consumers.

The factory pre-setting of the charging voltage lies below the permissible voltage at begin of gassing. Even in cases of short-circuit like load events (e.g. connecting a starter motor) the unit must not be disconnected, because the nominal current is never exceeded due to the regulated current limitation.

The devices can be connected in **parallel** for higher currents

## Charging curv



# POWER SUPPLY- / CHARGING UNIT

## NLG-xx24

TYPE	NLG2024-1	NLG-2024	NLG-4024
	1- Phasig	3- Phasig	3- Phasig
<b>Output</b>			
Rated current	20A	20A	40A
DC Voltage	24V DC	24V DC	24V DC
RIPPLE&NOISE	70mVp-p	30mVp-p	30mVp-p
Output voltage (adj. range)	23-28V DC	23-28V DC	23-28V DC
Output (factory setting)	26,8V DC	26,8V DC	26,8V DC
Output limited current (max ca.)	22A	22A	44A
Fuse(Min-value)	25A	25A	50A
(C-Kennnung, bzw. entsprechend Anlagenverdrahtung)			
Charging curve	IU - Kennlinie (DIN41773)		
wire size (E / A)	2,5 / 6mm <sup>2</sup>	2,5 / 6mm <sup>2</sup>	2,5 / 16mm <sup>2</sup>
Size (LxBxH, mm)	95x127x159	80x127x152	126x127x170
Weight	1,6kg	1,5kg	2,7kg
<b>Input</b>			
Voltage	100-240V AC	320-575V AC(3x)	
mains Frequency	50/60 Hz		
Power	480W	480W	960W
Inrush current(max.)	<30A	<30A/400V AC	<30A/400V AC
ACcurrent(typical)	2,3A	3x1,2A	3x2,2A
Fuse (C-Kennnung je Phase)	10A	6A	6A;
Protection (Output)	short current/ overload/ overvoltage/ overtemperatureperatur		
Status "DC OK"	Uout>21,5V		
Resistance to reverse feed max.	35V		
Einschaltdauer	100% ED		
Wirkungsgrad	ca. 92 %		
Ambient temperature	-25°C bis +70°C		
Storage temperature	-20°C bis +85°C		
Humidity	95%		
Dearating	-2,5%/°K >+55°C		
maintenance	nothing		
Terminals input output (direct plug-in technology Push-in)	2,5mm/6mm <sup>2</sup>	2,5mm/16mm <sup>2</sup>	
Mounting position	Wagerecht		
Required minimum spacing	left/right: 0mm; over/under: 50mm		
EMC	EN 61204-3		
CE - Anforderung (gemäß 2014/30/EU)	yes		
Schutzkleinspannung (SELV/PELV)	IEC 60364-4-41 (DIN VDE 0100-410)		
Schutzanforderung	EN 61558-2-16, EN 60950-1		
Protection index	IP20		
Safety class	I, mit PE		