

POWER SUPPLY- / CHARGING UNIT NLG



- Power supply-/ charging unit (leadacid batteries)
- IU- characteristic
- Rated power 120 - 240 - 480 - 960W
- Short circuit proof
- Voltage range (1- phase) 180 - 264V AC
or. (3-phase) 340 - 550V AC
- Voltage adj. range

Application

The power supply and battery charging units of the product line NLG... are to be applied as power supply and as IU-chargers. On charging operation the units can be used for lead-acid 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

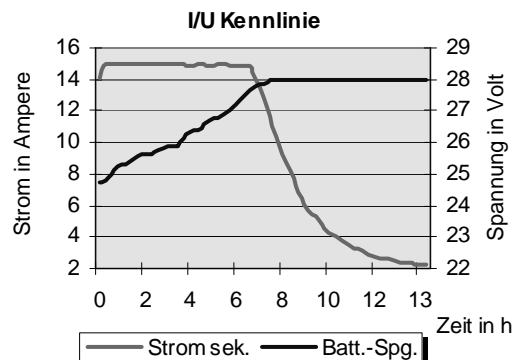
restarting after short-circuit and temperature rise.

In the load enterprise with IU - characteristic flows first - in the case of unloaded battery - a constant river (i-characteristic) of approx.. 10 - 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 river. At the same time the tension up to the load conclusion tension and the river 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.

Ladekurve



POWER SUPPLY- / CHARGING UNIT NLG

TYP	NLG-120-10	NLG-240-24	NLG-480-24	NLG-960-24
Output				
Current range	10A	10A	20A	40A
DC voltage	12V DC	24V DC	24V DC	24V DC
RIPPLE&NOISE	80mVp-p	80mVp-p	120mVp-p	80mVp-p
Output voltage (adj. range)	12V-14 DC	24-28V DC	24-28V DC	24-28V DC
Output (factory setting)	13,4V DC	26,8V DC	26,8V DC	26,8V DC
Charging current	ca. 9A	ca. 9A	ca. 18A	ca. 36A
Fuse(Min-value)	16A	16A	25A	40A
(C-Kennung, bzw. entsprechend Anlagenverdrahtung)				
Ladekennlinie	IU - Kennlinie			
Protection (Output)	short current/ overload/ overvoltage/ overtemperature			
Dimension(LxBxH, mm)	65x125x100	125x125x100	227x125x100	276x125x100
Gewicht	0,8kg	1,2KG	2,4KG	3,3KG
Input				
Voltage	176-264V AC	85-264V AC	180-264V AC	340-550V AC(3-Phasig)
Frequenz	50/60 Hz			
Power	120W	240W	480W	960W
Inrush current(max.)	60A/230V AC	50A/230V AC	40A/230V AC	50A/400V AC(3-Phasig)
ACcurrent(typical)	1,7A/230V AC	1,8A/230V AC	4A/230V AC	2A/400V AC(3-Phasig)
Fuse	6A; C-Kennung je Phase			
Einschaltdauer	100% ED			
Wirkungsgrad	ca. 90 %			
Working temp.	-10°C bis +70°C			
Storage temp.	-20°C bis +85°C			
Humidity	95%			
Temp. coefficient	+/-0,03%/°C			
Terminal in-/output	1,5 - 4mm ² / 10mm ²			
EMC	nach EN55011, EN55022 (CISPR22) Klasse B, EN61000-3-2,-3, Klasse A EN61000-4-2,3,4,5,6,8,11, ENV50204, EN61000-6-2 (EN50082-2)			
CE - mark	in konformität			
Saefty standards	EN60950; I/P-O/P: 3KV AC; I/P-FG: 1,5kV AC; O/P-FG: 0,5kV AC			