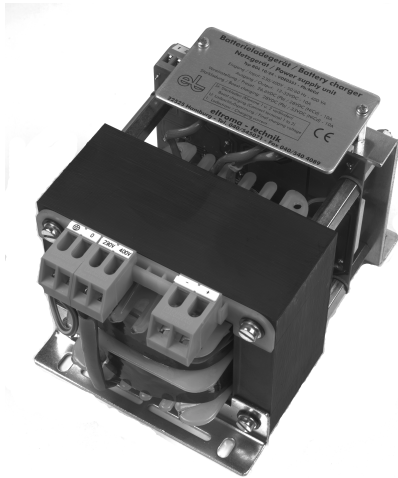


BATTERYCHARGER BGL



- Leadacid - or Ni/Cd batteries
- IU-W - characteristic according to DIN 41773
- Charging currents 10A
- Boost charge Short-circuit proof
- Supply voltage 230V AC oder 400V AC
- Soft-start after switching-on
- Transformer according VDE 0551

Application

The battery charging and power supply units of the product line BGL.... are to be applied as IU-W - chargers according to DIN 41773 and as power supply units. On charging operation the units can be used both for lead-acid as well as for Ni/Cd 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 compact modules (degree of protection IP 00) for fixation on a mounting plate.

The units are equipped with mains transformer, thyristor control, smoothing device and control circuitry.

Further advantages are the desirable mounting position, little need of space and little loss of heat. The potentiometers

enable easy adaption to the different electrical requirements. Due to the constant current regulation the output is short-circuit proof, an automatical restart takes place after short-circuit and over temperature. The load limitation takes place automatically.

Soft - Start after switching-on, this will protect connected electronic control systems.

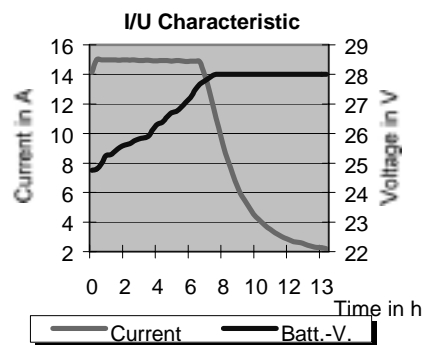
Primary voltages are optionally two AC voltages: 230 V / one phase or 400 V / two phase.

Standart operation mode - charging unit

On charging operation with IU - characteristic at first - in case of discharged battery - a constant current (I-characteristic) of 5 - 10 - 15 - 20 - 35 A, according to unit type, flows.

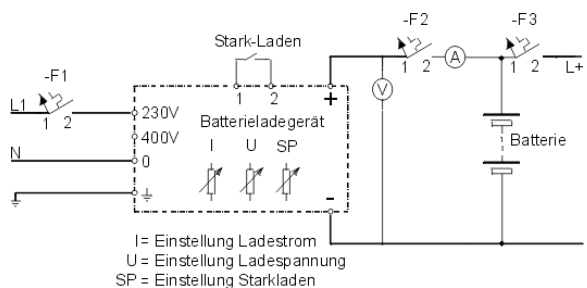
Prior to attaining the adjusted final charging voltage the current falls. Simultaneously the voltage rises up to the final charging voltage (U-characteristic) and the current continues falling down until the value, required for trickle charging and for the supply of the connected consumers is attained. the nominal current is never exceeded due to the regulated current limitation.

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.



BATTERYCHARGER BGL

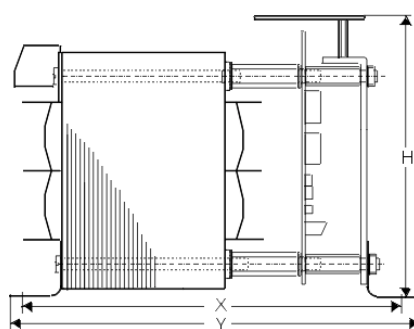
DESIGNATION / type	BGL 0524	BGL 1024	BGL 1524	BGL 2024	BGL 3524
nominal current	5A	10A	15A	20A	35A
leistung trafo	210VA	400VA	500VA	610VA	1200VA
weight	4,6kg	5,6KG	7,5KG	13,5KG	21,0KG
supply voltage	230V AC or 400V AC ($\pm 20\%$)				
mains frequency	50/60 Hz				
load characteristic	IU - characterisitc according to DIN 41773 W - characterisitc on final charging range				
output voltage	12V to 33V dc, Soft-start at switching on				
duty cycle	100% ED				
efficiency rate	ca. 90 %				
ripple without battery	about +- 2v on ohmic load on 50 % nom. current				
overload temperatre	regulated load limitation, sustained short- circuit proof, selfstarting after short-circuit and over				
ambient temperature	-20°C bis +75°C				
storage temperature	-40°C bis +90°C				
rel. humidity	95%				
Protection	IP 00				
Maintance:	no maintance				
Terminal:	1,5 - 4mm ²				
Terminals boost-charging	0,75 - 2,5mm ²				
Mounting	no specific				
CE conform					



Fuses

Typ	F1400/230V	F2	F3
BGL 0524	2A / 4A	6A	Siehe Text
BGL 1024	4A / 6A	16A	Siehe Text
BGL 1524	4A / 6A	20A	Siehe Text
BGL 2024	10A / 16A	25A	Siehe Text
BGL 3524	16A / 20A	40A	Siehe Text

F1 = Characteristic D
F3 = as consumer



Typ	X	B	Y	H	Z (Tiefe)
	drilling				
BGL 0524	135	90	150	121	120
BGL 1024	144	90	159	121	120
BGL 1524	164	90	179	121	120
BGL 2024	190	122	210	147	150
BGL 3524	270	138	290	165	170

All dimensions in mm