



**BRUSA**

# NLG667 - On Board Fast Charger

Smart charging solution for utility vehicles

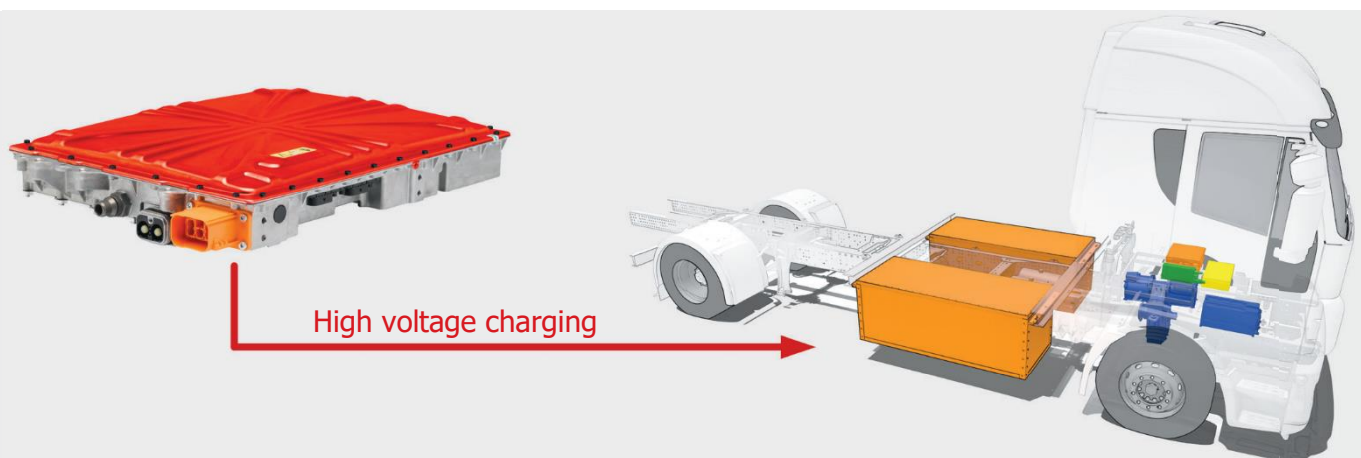


## Features

- Full separation of mains and HV battery through galvanic isolation
- Up to 750V battery voltage operation
- High IP protection rating

## Cutting - Edge Technology

- CAN controlled
- Battery - friendly high power charging due to low battery ripple current
- Single and three-phase charging with up to 22 kW
- Power Ripple Compensation also in single-phase charging
- Maximum performance through patented Liquid Pin<sup>®</sup> cooling - technology and integrated power factor correction





## Specifications NLG667

### AC Input

	NLG667	
Voltage range single-phase (L1 → N)	200 - 250	V <sub>rms</sub>
Voltage range three-phase (Phase - Phase L1 → L2 → L3)	360 - 440	V <sub>rms</sub>
Max. input current three - phase (each phase)	32	A <sub>rms</sub>
Max. input current single - phase	30	A <sub>rms</sub>
Input frequency	50	Hz
Power factor (for output power of > 5kW in 3-phase operation)	>0.99	---

### DC Output

	NLG667	
Voltage range three – phase (at maximum AC input voltage)	630 - 750	V <sub>DC</sub>
Voltage range three – phase (at nominal AC input voltage of 230V)	570 - 750	V <sub>DC</sub>
Voltage range single - phase	330 - 750	V <sub>DC</sub>
Max. charging current three - phase	34	A <sub>DC</sub>
Max. charging current single - phase	18	A <sub>DC</sub>
Max. charging power three - phase	20.5	kW
Max. charging power single - phase	6.5	kW
Efficiency (P <sub>OUT</sub> > 5 kW) three - phase	>94	%
Efficiency (P <sub>OUT</sub> > 3 kW) single - phase	>89	%

### Mechanical Data / Cooling System

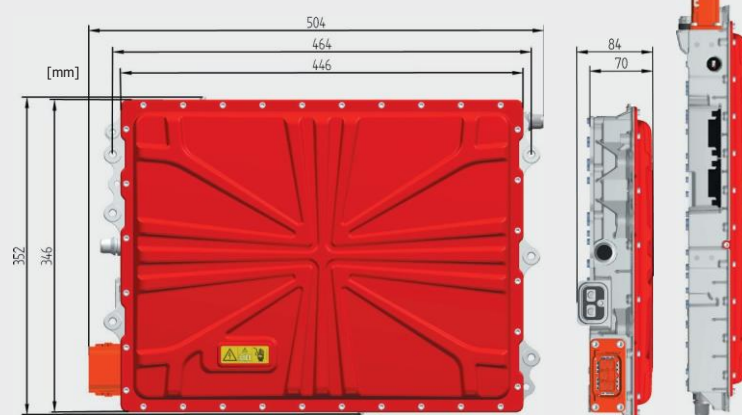
	NLG667	
Housing material	Aluminium (EN AC - AISi9MgMn)	---
Weight	12.0	kg
Housing volume (without interfaces)	11.0	l
IP - protection	IP 6K9K	---
Coolant quantity in device	0.21	l
Coolant pressure loss @ 6 l / min, T <sub>coolant</sub> = 25°C (water / glycol = 50 / 50)	<100	mbar

### Protection Specifications

	NLG667	
Mains input overvoltage protection	250	V
Open circuit protection	Yes	---
Internal overtemperature protection	Yes	---
Insulation resistance on DC (initial) min.	>5	MΩ

In light of the further technical development of our products, we reserve the right to make constructional changes.

## Dimensions [mm] & Diagrams



## Efficiency

