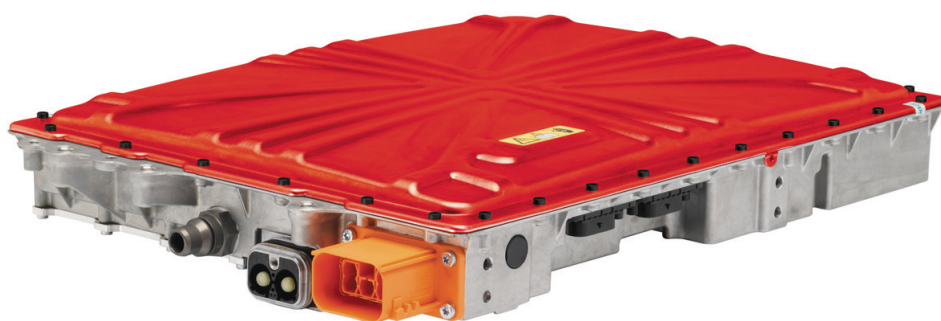


**BRUSA**

NLG6 - On - Board - Fast Charger

The synthesis of performance and efficiency

**AWARD
WINNER**

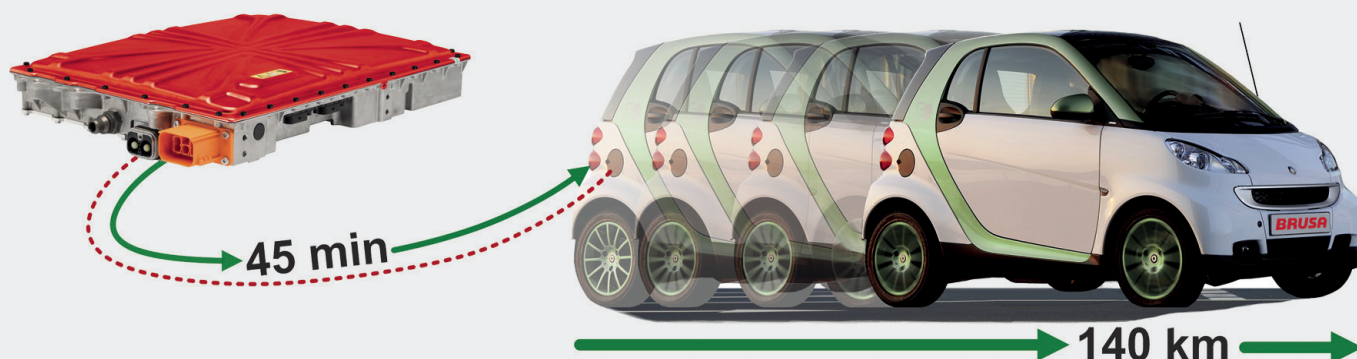
Safety first

- Full separation of mains and HV battery through galvanic isolation
- VDE certified charger complies with all applicable legal requirements in Europe. In case of EMC requirements, compliance is given in combination with the vehicle
- High IP - protection rating
- Evaluation of external PT1000 sensors
- Fully compliant with the LV123
- No DC - fault current, therefore the use of a Class A ground fault interrupter is possible

Cutting - Edge Technology

- Compatible to all combined charging systems
- 2x CAN interface: Vehicle CAN and Diagnostic CAN
- Battery - friendly high power charging due to low battery ripple current
- Single and three-phase charging with up to 22 kW
- Enhanced temperature handling and maximum performance through patented Liquid Pin® cooling - technology and integrated power factor correction
- Optional: Smart Charge Communication via PLC according to ISO 15118
- minimal reactive power over the entire power range

6 times faster than standard!





Specifications NLG66x

AC Input

NLG664

Voltage range single-phase (L1→N)	200 - 250	V _{rms}
Voltage range three-phase (Phase - Phase L1 → L2 → L3)	360 - 440	V _{rms}
Max. input current three - phase (each phase)	32	A _{rms}
Max. input current single - phase	16	A _{rms}
Input frequency (+/- 1%)	50	Hz
Powerfactor (at 16 A mains voltage single - and three - phase)	> 0.99	---

DC Output

NLG664

Voltage range three - phase	310 - 430	V _{DC}
Voltage range single - phase	200 - 450	V _{DC}
Max. charging current three - phase	60	A _{DC}
Max. charging current single - phase	12	A _{DC}
Max. charging power three - phase	20.75	kW
Max. charging power single - phase	3.3	kW
Efficiency (P = P _{almax}) three - phase	> 94	%
Efficiency (P = P _{almax}) single - phase	> 90	%
Max. charging current ripple at max. charging power single - / three - phase (mains operated)	< 8 / < 10	A ^{eff}

Mechanical Data / Cooling System

NLG664

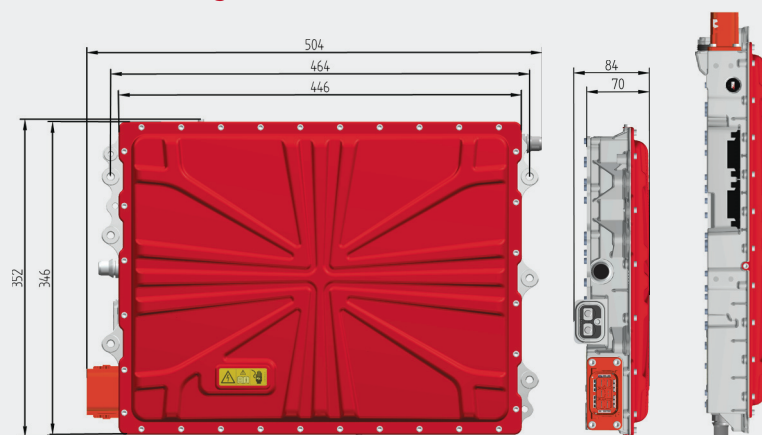
Housing material	Aluminium (EN AC - AlSi9MgMn)	---
Weight	12	kg
Housing volume (without interfaces)	11	l
IP - protection	IP 6K9K	---
Coolant quantity in device	0.21	l
Coolant pressure loss @ 6 l / min, T _{coolant} = 25°C (water / glycol = 50 / 50)	< 100	mbar

Safety

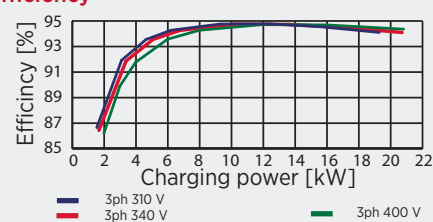
NLG664

Isolation between Mains input and DC - output	LV 123 / IEC 61851	---
Mains input overvoltage protection	264	V
Open circuit protection	yes	---
Internal overtemperature protection	yes	---
Insulation resistance (initial) min.	> 5	MΩ

Dimensions & Diagrams



Efficiency



Charging

