BRUSA

NLG664 - On Board Fast Charger

Offers a great flexibility for a worldwide use


VDE
REG.-Nr. E250

Safety first

- Full separation of mains and HV battery through galvanic isolation
- VDE certified
- High IP - protection rating
- Evaluation of external PT1000 sensors
- Ground fault interrupter type A is sufficient due to reinforced insulation

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
- Maximum performance through patented Liquid Pin© cooling - technology and integrated power factor correction
- minimal reactive power over the entire power range
- Parallel operation of several NLG664 units to increase charging power

6 times faster than standard!

45 min

140 km

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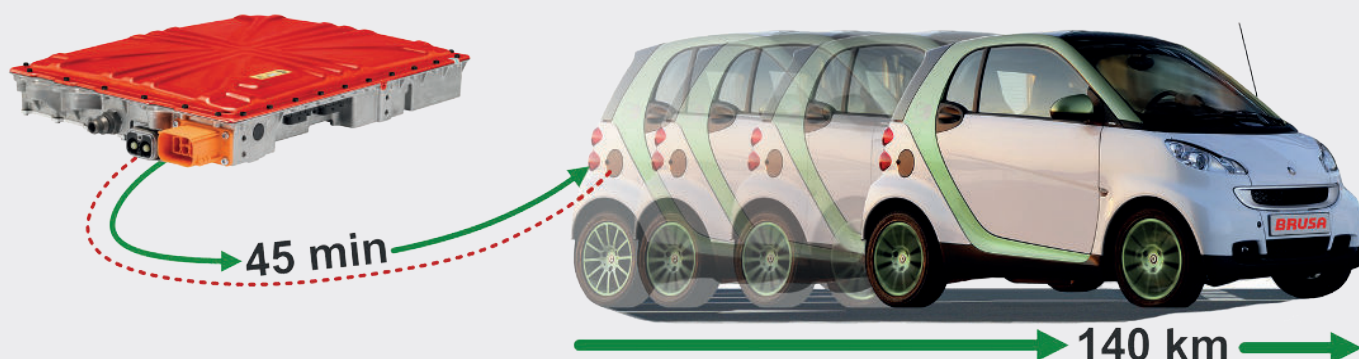
Specifications NLG664

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	30	A$_{rms}$
Input frequency	45 - 65	Hz
Powerfactor (at 16 A mains current 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	20	A$_{DC}$
Max. charging power three - phase	20.75	kW
Max. charging power single - phase	6.5	kW
Efficiency (P = Pa1max) three - phase	> 94	%
Efficiency (P = Pa1max) single - phase	> 90	%

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, Tcoolant = 25°C (water / glycol = 50 / 50)	< 100	mbar

Safety
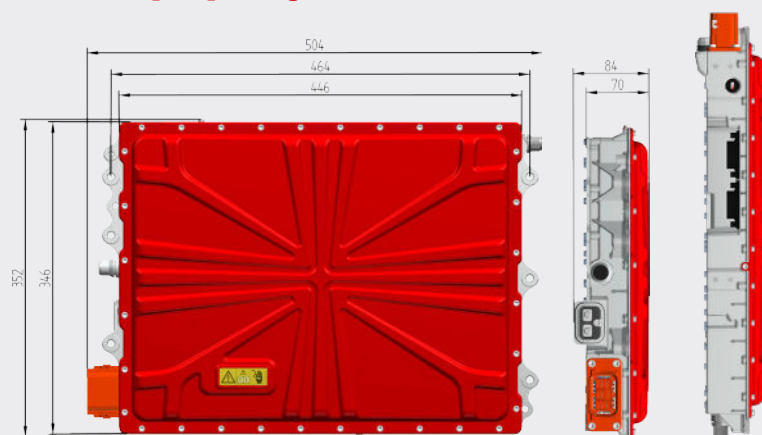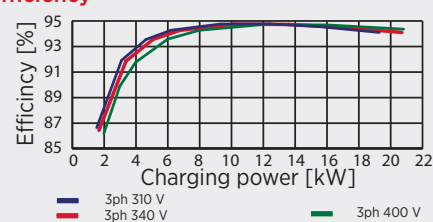
	NLG664	
Isolation between Mains input and DC - output	LV 123 / IEC 61851	---
Mains input overvoltage protection	264	V
Open circuit protection	yes	---
Internal overtemperature protection	yes	---
Insulation resistance (initial) min.	> 5	MΩ

Dimensions [mm] & Diagrams

Efficiency

3ph 310 V
3ph 340 V
3ph 400 V

Charging

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