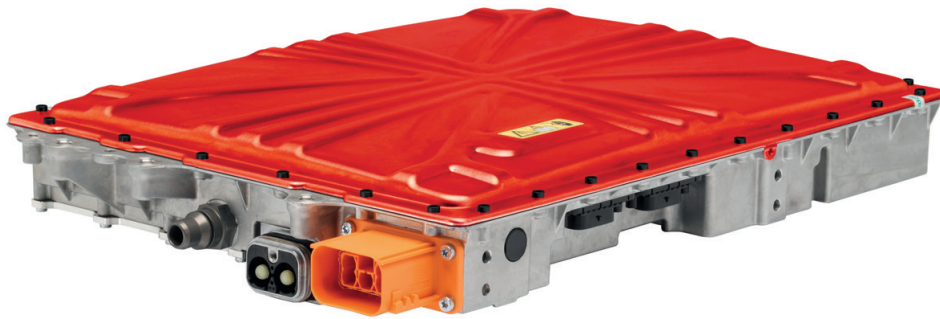




BRUSA

NLG664 - On Board Fast Charger

Offers a great flexibility for a worldwide use



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

www.brusa.biz

BRUSA Elektronik AG
Neudorf 14
CH-9466 Sennwald
+41 81 758 19 00
info@brusa.biz



BRUSA

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	%

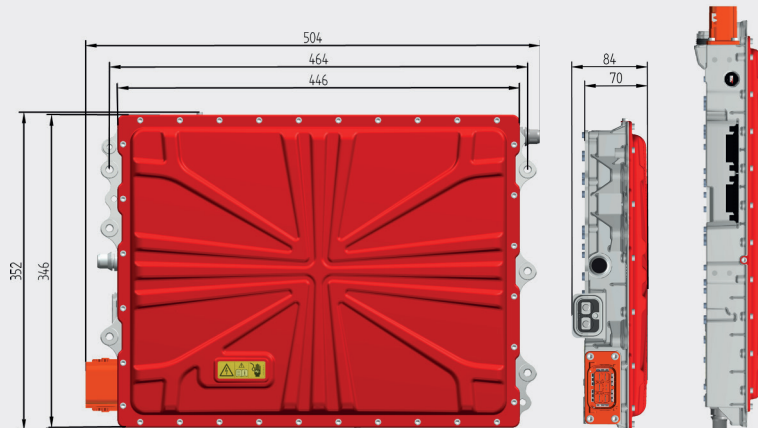
Mechanical Data / Cooling System

	NLG664	
Housing material	Aluminium (EN AC - AISi9MgMn)	---
Weight	12	kg
Housing volume (without interfaces)	11	l
IP - protection	IP 6K9K	---
Coolant quantity in device	0.21	l
Coolant pressure loss @ 6l/min, T _{coolant} = 25°C (water / glycol = 50 / 50)	< 100	mbar

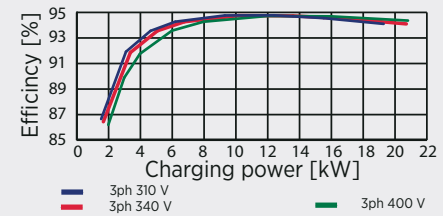
Safety

	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

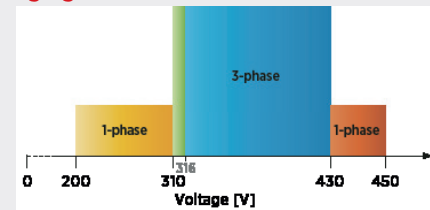
Dimensions & Diagrams



Efficiency



Charging



BRUSA / 05.2018 / NLG664

www.brusa.biz

BRUSA Elektronik AG
 Neudorf 14
 CH-9466 Sennwald
 +41 81 758 19 00
 info@brusa.biz