



NLG6 - On - Board - Fast Charger

The synthesis of performance and efficiency







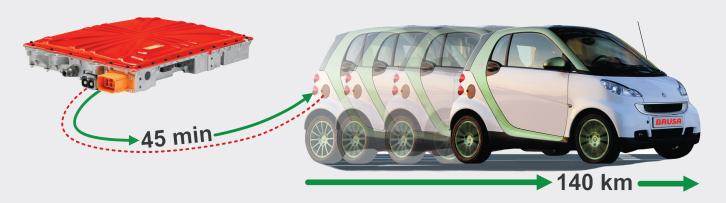
Safety first

- Full separation of mains and HV battery through galvanic isolation
- Complies to automotive standards such as IEC 61851-1 (CE compliant)
- Meets all EMC requirements
- High IP protection rating
- Evaluation of external PT1000 sensors
- Fully complied with the LV 123
- No DC-fault current, therefore the use of a Class A leakage circuit breaker is possible

Cutting - Edge Technology

- Compatible to all combined charging systems
- 2 x 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 full charge in less than 60 minutes!
- 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
- And many more...

6 times faster than standard!





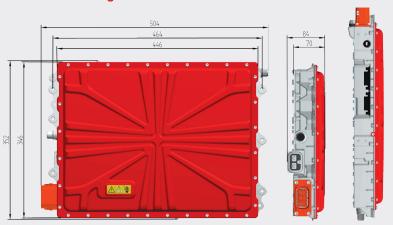




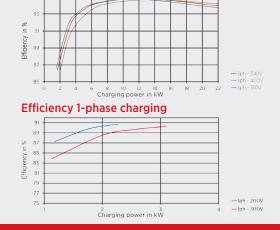
Specifications NLG66x

AC Input	NLG664	NLG665	
Voltage range single-phase (L1→N)	200-250	200-250	V _{rms}
Voltage range three-phase (Phase - Phase L1 \rightarrow L2 \rightarrow L3)	360 - 440	360 - 440	V _{rms}
Max. input current three - phase (each phase)	32	32	Arms
Max. input current single - phase	16	16	Arms
Input frequency (+/-1%)	50	50	Hz
Powerfactor (at 16 A mains voltage single - and three - phase)	>0.99	>0.99	
DC Output	NLG664	NLG665	
Voltage range three - phase (derating / full power)	310 - 410	350 - 450	VDC
Voltage range single - phase (derating/full power)	200 - 410	230 - 450	VDC
Max. charging current three-phase	60	60	Add
Max. charging current single - phase	12.0	10.7	Add
Max. charging power three - phase	20.75	20.75	kW
Max. charging power single - phase	3.3	3.3	kW
Efficiency (P = Pa1 _{max}) three - phase	>94	>94	%
Efficiency (P = Pa1 _{max}) single - phase	>90	>90	%
Max. charging current ripple at max. charging power single - / three - phase (mains operate	ed) <8/<10	<8/<10	Aeff
Mechanical Data / Cooling System	NLG664	NLG665	
Housing material	Aluminium (EN AC - AlSi9MgMn)		
Weight	12.0	12.0	kg
Housing volume (without interfaces)	11.0	11.0	I
IP-protection	IP 6K9K	IP 6K9K	
Coolant quantity in device	0.21	0.21	I
Coolant pressure loss @ 61/min, Tcoolant = 25°C (water/glycol = 50/50)	<100	<100	mbar
Safety	NLG664	NLG665	
Isolation between Mains input and DC - output	LV 123 / IEC 61851	LV 123 / IEC 61851	
Mains input overvoltage protection	264	264	V
Open circuit protection	yes	yes	
Internal overtemperature protection	yes	yes	
Insulation resistance (initial) min.	>5	>5	ΜΩ

Dimensions & Diagrams



Efficiency 3-phase charging



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