



AUXILIARY POWER UNIT BNU 600

COMPACT AND POWERFUL ON-BOARD POWER SUPPLY FOR LOCAL TRANSPORT VEHICLES

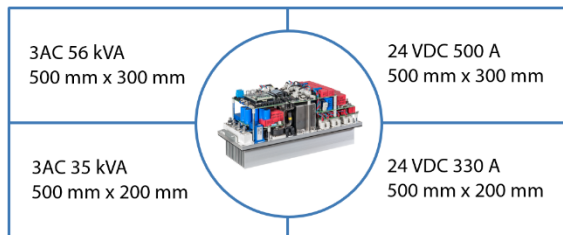
- High power density comparable to current SiC-converters due to patented circuit concept
- Parallel operation on 3AC-busbar possible
- Fully loadable neutral conductor
- Self-start from catenary with totally discharged battery
- Fulfills EMC requirements for bus and rail
- Modular system with independent 3AC and DC power modules ideal for new and also retrofit projects

Technical description

The name BNU 600 stands for the 6th generation of the Kiepe auxiliary power unit platform which has been further developed for over 35 years. The converters are based on the cost-effective IGBT technology. Together with the patented circuit solutions and modern control technology, a power density and efficiency is achieved, which is comparable to the silicon carbide auxiliary power units currently available on the

market for railway applications.

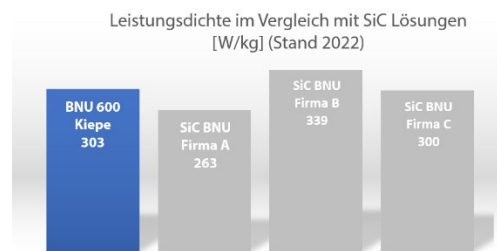
Modular design together with reduced module dimensions and high efficiency makes the BNU 600 especially attractive for retrofit projects. Both the complete device and the individual inverter modules can be exchanged within the existing device container.



Übersicht Umrichtermodule BNU 600

Overview Converter Modules BNU 600

Power density compared with SiC solutions [W/kg] (state 2022)



| Electrical data | |
|---|---|
| Catenary voltage | DC 400 ... 1000 V |
| 3AC Output | 56 kVA, 3/N AC 400 V/230 V (max. 480 V/277 V) |
| DC output | 500 A, 24 V |
| Communication and control | |
| Communication | CAN / Ethernet (diagnostics) |
| Control voltage | DC 24 V |
| Mechanical data | |
| Dimensions (L x W x H) | 1262 mm x 770 mm x 437 mm |
| Weight | 211 kg |
| Protection class | IP55 |
| Cooling | Forced air cooling |
| Ambient temperature | -40 °C ... +50 °C |
| Other | |
| Overvoltage protection, contact wire | EN 50124-2 |
| EMC | EN 50121-3-2 / UN ECE R10 |
| Fire protection | EN 45545 |

Kiepe Electric GmbH

Kiepe Platz 1
40599 Düsseldorf
Tel: +49 211 7497-0
Fax: +49 211 7497-300
info@kiepe.knorr-bremse.com
www.kiepe.knorr-bremse.com



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