AST Gruppe
Angewandte System Technik

Battery Inverter

for Power Supplies and Drive Systems

safe | compact | stable

Rail vehicles have batteries which cannot be used to operate AC voltage consumers.

The inverters generate a sinusoidal AC voltage from the battery simulating the quality of the local network. It can be used to operate virtually any AC and three-phase consumers.

Features

- Electrical isolation between battery and AC voltage output
- Sinusoidal output voltage
- High pulse overload
- Low AC load reaction on battery
- Output voltage and output frequency parameters can be set
- Optional V/f curve with motor actuators

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Technical Data

Type	Battery Voltage	Output Voltage	Nominal Output Current
WRS 24/230 –1500-1	24 V	230 V	6,5 A
WRS 24/230 – 2250-1	24 V	230 V	9,8 A
WRM 24/400 – 3500-1*	24 V	400 V	5,0 A
WRS 72/230 – 2000-1	72 V	230 V	8,7 A
WRS 110/230 – 1500S	110 V	230 V	6,5 A
WRS 110/230 – 2000S	110 V	230 V	8,7 A
WRS 110/230 – 2000K	110 V	230 V	8,7 A
WRM 110/400 – 4500*	110 V	400 V	6,5 A

* for asynchronous Motors 400 V 3 AC

Ambient Temperature Range	- 25 ... +55 °C, 70 °C for 10 Minutes
Protection Classification	IP 20 (WRS 110/230-2000K IP 54)
Input Voltage Range	0,7 bis 1,25 U_{nom} permanently 0,6 bis 1,4 U_{nom} for 0,1 sec.
Output Voltage	230 V sine 1 AC for Power Supplies, 400 V Sine 3 AC for Asynchronous Motors Other Voltages adjustable (factory -set)
Output Frequency	50 Hz ($16\,^{2}/_{3}$ … 120 Hz factory – set)
Protection	Input Current Limiting, Protection against Overload, Output Short-Circuit, Overvoltage, Undervoltage, Overtemperature,
cos φ at Nominal Power	Maximum 0,8

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