- **For applications on rolling stock**
- **Electrical safety acc. EN60950 VDE 0805, CE acc. EN50121-3-2**
- **Short circuit proof (dynamic / continuous)**
- **Synthetic sinus wave output**
- **Disortion factor <1,5%**
- **Stable regulation for any kind of loads (capacitive, inductive, complex)**
- **Processor controlled / regulated**
- **High frequent isolation**
- **Efficiency up to >92%**

for railway, special technology, utility vehicles

Series WER.H6

Main points:

Input:
- 24/36/72/110V Battery
- EMC / Disturbances EN50121-3-2
- Defined turn-on point with amplidude-time hysteresis
- Integral power run-up
- No-load power approx. 20W
- Power-Sleep mode <2mA (Σ-Inhibit) floating / polarity independent / surge proof 10 - 154V / 2mA = ON (open=OFF)
- AC-OFF: 10-90V/2mA (open=ON), surge proof
- Fuse external (customer sided)
- low 100Hz current ripple to the input side
- Connection: Würth screw terminal M8

Outputs:
- Auxiliary voltage 24V / 0,6A floating for external loads [2] (0,4A when stronger fans)
- 1Ph/2Ph-sinus-voltage
- EMC / Disturbances EN50121-3-2
- Tolerance ± 2% = f(Ui/Io/Ta)
- Uo -7% at Ui <0,7 x Unom [1]
- Dynamic over load 5s / re-start 45s [3]
- Monitoring of rms-current
- I²t-load protection of dynamical over load [3]
- Response time ΔI=50% < 2 ms
- Disortion factor <1,5%
- No-load and short circuit proof
- U or f/U run-up characteristic (standard: U run-up)
- Connections:
  Power: Wago-spring clamp 4mm²
  Auxiliary: Phoenix MC 1,5/2-STF-3,81
  communication: Phoenix MSTB 2,5/6 STF-5,08
  Σ-Inhibit/Fan-Error: Phoenix MC 1,5/4-STF-3,81

General:
- Error signalling (communication)
- Status display LED (7 pc.)
- Speed/temperature controlled fans >55°C
- Test button for fan operation
- Over temperature switch-off [3]
- 3) Locked turn-off after 5 x autostart-tries (in 60s) New run-up only with Σ-Inhibit or Ui-off/on
- Isolation test voltage:
  Input - Output: 2,5 kVAC 1 min
  Input - Ground: 1,5 kVAC 1 min
  Output - Ground: a) N on Ground 1Ph-System
  optional: b) floating 2Ph-System
- Ambient temperature Ta: -25/+70°C
  Option: -40/+70°C
- Derating >65°C / 2%/°C
- MTBF on request
- CE-conformation acc. EN50121-3-2
- Shock/Vibration acc. EN61373, Kat. 1, class B 50m/s²-30ms / 7,9m/s²rms all directions
- Weight: approx. 18 kg
- Dimension: (348 x 465 x 170)mm
- Ground connection: M5 thread bolt

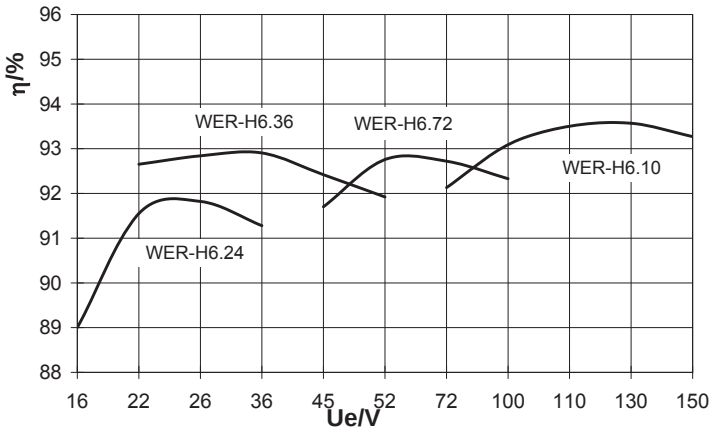
Input		Output	Power	Model number
Ui-range	Ui nom	Uo rms	Po cont./dyn.	
V DC	V DC	V AC	VA	
18 - 32 16,8 - 34 dyn.[1]	**24**	230V / 50Hz	2100/2500	WER.H6.24.230.210/250
25 - 47 21,6 - 51 dyn.[1]	**36**	230V / 50Hz	2400/2900	WER.H6.36.230.240/290
50 - 94 43 - 101 dyn.[1]	**72**	230V / 50Hz	2400/2900	WER.H6.72.230.240/290
77 - 143 66 - 154 dyn.[1]	**110**	230V / 50Hz	2600/3100	WER.H6.10.230.260/310

1) Uo drops to 0,93 x 230V AC by reaching the dyn. minimum input voltage

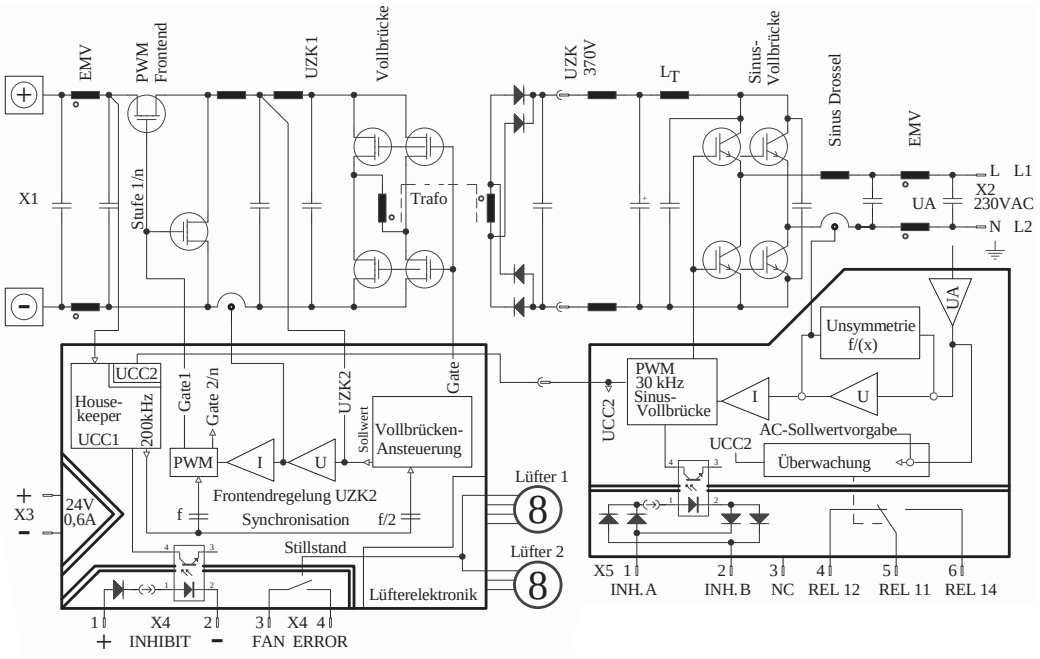
Mechanical adaptation:	on request
Single projecting costs:	on request
Modifikation cost for possible changes above parameters:	on request
Output frequency 60Hz / 400Hz / 115Vrms:	on request

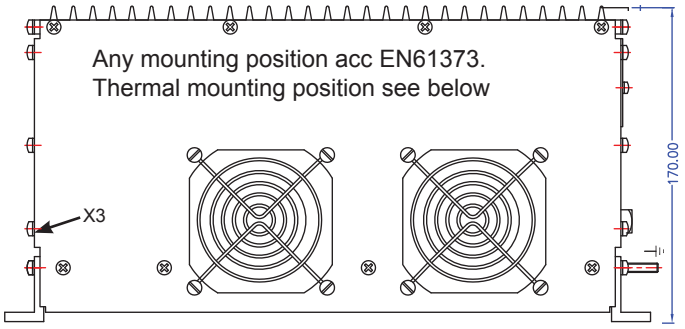
* on request

Efficiency curve WER.H6



1ph/2ph inverters operate on battery networks in vehicles to supply kitchen equipment, pumps, fans, tools, passenger sockets or similar applications. The new ***WER.H6*** series generates a synthetic, regulated and short circuit proof 230V sinus output with an output power up to 2600VA continuous and 3100VA dynamic.
This inverter solution for mobile applications is designed in a modular style (DC/DC plus DC/AC-step) with high frequent protective isolation. The inverter family is defined by the use of latest power components, wide input voltage range, over voltage and transient protection, high efficiency and smart mechanical design etc. High frequent chopping currents are only processed by ceramic capacitors and foil capacitors. Low frequent currents and re-feeding is realised with high quality electrolytic capacitors. This unproblematic and flexible operating power component is characterised by the following main points: input and output sided EMC-filters, monitoring and signalling functions, crystal stable output frequency, low disortion factor, voltage regulated output, dynamic and continuous short circuit protection, allowed ambient temperature up to 55°C without fan operation and up to 65°C without derating.





Mechanic