

## Technical Specification

## HEAM0500.

Stand: 20.09.2018

Power Output	kVA	50-500
Power Output	kW	50-500
Voltage	V	380/400/415
Frequency	Hz	50/60
Type	Online Modular three-phase	



## Product Specification

The HEA M series from Henkelhausen offers highly efficient, scalable solutions for data centers, industrial processes and other demanding applications. The true sine wave double conversion technology decouples critical loads from the power grid and ensures consistently excellent power quality. By a redundant design, maximum reliability can be achieved. The modularly designed systems can be configured to meet current requirements. With increasing demand, the performance can be subsequently increased easily by further modules. All HEA M are equipped with HOT-SWAP technology. Modules can be replaced during operation and low risk.

### Special features:

- true sine wave double conversion technology
- High efficiency of 96% already from 40% utilization guarantees the lowest power loss and energy savings
- redundant design for maximum reliability
- HOT SWAP: module replacement during operation
- flexible modularity and easy scalability
- Depending on the model, up to 16 power modules can be installed
- Power modules with 20 or 50 kVA
- 7 inch LCD touch screen
- many communication options:
- SNMP, potential-free contacts, RS485 etc.
- true online UPS according to VFI-SS-111

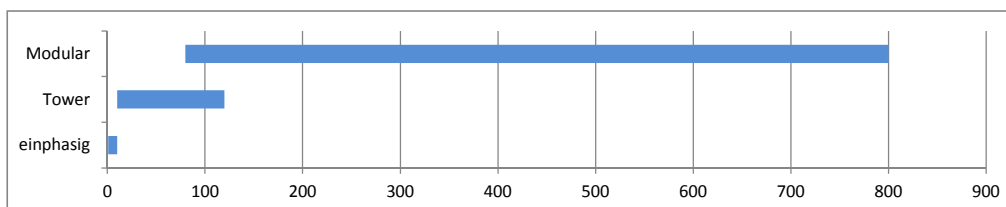
## Technology you can rely on

Henkelhausen designs, builds and installs UPS solutions of all sizes. For usage in small offices up to the protection of industrial plants and data centers. All systems consist of quality components and comply with the highest technical classification VFI-SS-111.

The Henkelhausen UPS product range includes one- and three-phase online UPS systems in the power range from 1 kVA to 2.400 kVA. The systems are available in single, parallel or redundant design. In parallel construction, we realize services well over 2 MVA.

All our UPS Systems are optimally aligned to the current requirements for classification, efficiency and ease of maintenance. They provide you with a reliable, uninterrupted power supply and protect your sensitive systems from voltage disturbances and fluctuations.

## Performance Range



## Other Products From Henkelhausen

### Combined Heat and Power from Henkelhausen

With a CHP from Henkelhausen you achieve the maximum yield. You benefit from the efficient conversion of natural gas, biogas, sewage gas and weak gases through combined heat and power. Our product range includes CHPs for every application as well as individual complete solutions for entire energy plant.

### Emergency Power Supply from Henkelhausen

An emergency power generator from Henkelhausen starts when the public network fails. It provides you with the power you need for your applications reliably and quick. As a full-service provider, we design and implement your system including the engine, control system and the entire periphery. You get a tailored, turnkey solution that ensures your power supply at all times.

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### Input

Nominal Frequency	Hz	50/60
Nominal Voltage	V	380/400/415
Voltage Tolerance	V	305-585
Total Harmonic Distortion THDI		<3%
Performance Factor		>99%

Input Frequency	Hz	40-70
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Connection Type		5 conductor system
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### Output

		50/60Hz grid synchronous
Output Frequency	Hz	+/-0,25% battery operation
Nominal Voltage	V	380/400/415
Voltage Accuracy		+/-1%
Total Harmonic Distortion THDV		5% non linear load
Performance Factor		1
Overload Capacity WR		125% 10min.
Overload Capacity Bypass		1000% 100ms.
Crest		3:1
Switch between Grid - Battery	ms	0

### Battery

DC Voltage	V	360-552 selectable
Number of Batteries		30-46 selectable
Charging Current	A	1-105A selectable
internal Batteries		no
external Batteries		required

### Unit

Operating Temperature	°C	0-40
Altitude		<1000
Sound Pressure at 1 Meter		<68

Efficiency		96%
Parallel Usage		yes

### Maßangaben:

Module:		
Length	mm	620
Width	mm	130
Height	mm	130
Weight	kg	32

USV-Cabinet		ST
Length	mm	1200
Width	mm	850
Height	mm	2000
Weight	kg	465

### Technical Circumstances:

These technical data refer to nominal conditions according to DIN ISO 3046-1

Nominal Conditions:		
Air Pressure Total		100 kPa
Air Temperature		25 °C
Relative Humidity		30 %

Power variation at environmental conditions according to DIN ISO 3046-1

All statements made are subject to technical developments, compliance with the technical instructions of Henkelhausen GmbH & Co. KG and reflect the plant at new conditions without pollution.