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# Technical Reference

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Notes

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## Warranty Information

A copy of the specific warranty terms applicable to your DEWETRON product and replacement parts can be obtained from your local sales and service office.

## Support

For any support please contact your local distributor first or DEWETRON directly.

For Asia and Europe, please contact:

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The telephone hotline is available  
Monday to Friday between  
08:00 and 17:00 CET (GMT +1:00)

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The telephone hotline is available  
Monday to Friday between  
08:00 and 17:00 GST (GMT -5:00)

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## Printing History

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# Safety instructions

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## Safety symbols in the manual

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*Indicates hazardous voltages.*

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**WARNING** *Calls attention to a procedure, practice, or condition that could cause bodily injury or death.*

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**CAUTION** *Calls attention to a procedure, practice, or condition that could possibly cause damage to equipment or permanent loss of data.*

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### **WARNINGS**

*The following general safety precautions must be observed during all phases of operation, service, and repair of this product. Failure to comply with these precautions or with specific warnings elsewhere in this manual violates safety standards of design, manufacture, and intended use of the product. DEWETRON Elektronische Messgeraete Ges.m.b.H. assumes no liability for the customer's failure to comply with these requirements.*

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**All accessories shown in this document are available as option and will not be shipped as standard parts.**



*For safety reasons max. 50 V may be applied to the BNC input-connectors!  
Refer to the regulation of maximum allowable touch potential.*

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## Safety instructions for all DEWETRON systems

- The DEWETRON data acquisition systems may only be installed by experts.
- Read your manual before operating the system.
- Observe local laws when using the instrument.
- DO NOT operate the product in an explosive atmosphere or in the presence of flammable gases or fumes and do not bring the system in contact with water.
- DO NOT operate damaged equipment: Whenever it is possible that the safety protection features built into this product have been impaired, either through physical damage, excessive moisture, or any other reason, REMOVE POWER and do not use the product until safe operation can be verified by service-trained personnel. If necessary, return the product to a DEWETRON sales and service office for service and repair to ensure that safety features are maintained.
- No modifications are allowed at the instrument. The fuse in the power module has to be replaced by the same type. For continued protection against fire, replace the line fuse(s) only with fuse(s) of the same voltage and current rating and type. DO NOT use repaired fuses or short-circuited fuse holder labels and print on the power module may not be removed.
- DO NOT substitute parts or modify equipment: Because of the danger of introducing additional hazards, do not install substitute parts or perform any unauthorized modification to the product. Return the product to a DEWETRON sales and service office for service and repair to ensure that safety features are maintained.
- Before opening the instrument (experts only) or exchanging the fuse in the power module disconnect power!
- Don't use higher supply voltage than specified and take care of the correct polarity, otherwise the system will be damaged!
- Use only original plugs and cables for harnessing.
- Keep the ventilation slots free and check them frequently to avoid an overheating of the system. The cleaning interval of the filter pads depends on the environmental conditions.
- Safety of the operator and the unit depend on following these rules.
- DEWETRON is not responsible for any damage or injury that could result from improper connection or misuse!

# General System Information

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## Environmental Considerations

Information about the environmental impact of the product.

### Product End-of-Life Handling

Observe the following guidelines when recycling a DEWETRON system:

### System and Components Recycling

Production of this components required the extraction and use of natural resources. The substances contained in the system could be harmful to your health and to the environment if the system is improperly handled at it's end of life! Please recycle this product in an appropriate way to avoid an unnecessary pollution of the environment and to keep natural resources.



This symbol indicates that this system complies with the European Union's requirements according to Directive 2002/96/EC on waste electrical and electronic equipment (WEEE). Please find further informations about recycling on the DEWETRON web site [www.dewetron.com](http://www.dewetron.com)

### Restriction of Hazardous Substances

This product has been classified as Monitoring and Control equipment, and is outside the scope of the 2002/95/EC RoHS Directive. This product is known to contain lead.

# DEWE-UPS-300-DC

## DEWE-UPS-300-DC

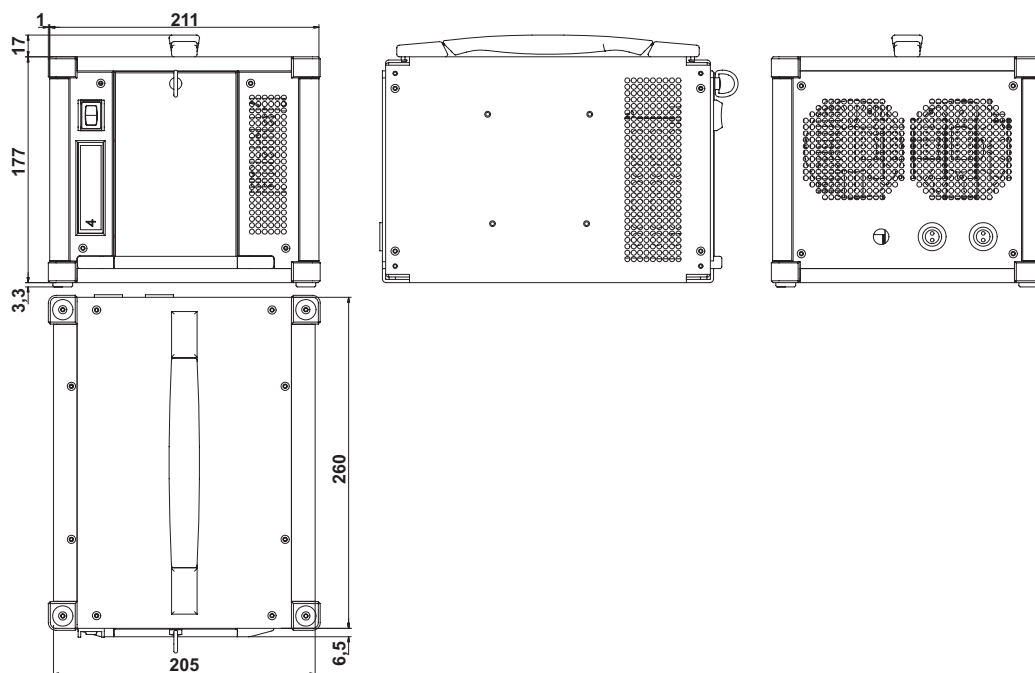
- Hot swappable batteries
- 300 W power for one hour with internal batteries
- 12 V<sub>DC</sub> or 24 V<sub>DC</sub> board supply
- Internal display shows the charge and discharge state
- Get charge and discharge state via COM interface
- Auto-shutdown on critical power state selectable in the shipped software



## Specifications

DEWE-UPS-300-DC	
Input:	
Input voltage:	10 to 36 V <sub>DC</sub> (input protected against wrong polarity)
Max. input current:	36 A @ 10 V <sub>DC</sub> input voltage (15 A @ 24V <sub>DC</sub> )
Isolation Voltage:	500 V <sub>DC</sub>
Input connector:	2-pin LEMO connector, type: EGJ.3B.302.CLA
Output:	
Output voltage:	24 V (when powered via DC-in plug) 12 to 16 V (when powered from internal batteries)
Output power:	300 W
Output current:	max. 28 A
Output connector:	2-pin LEMO connector, type: EGG.3B.302.CLL
Operating temperature:	
	0 °C to +50 °C when discharging batteries 0 °C to +45 °C when charging batteries
Dimensions (W x D x H):	approx. 260 x 211 x 177 mm (10.2 x 8.3 x 7 in.)
Weight:	4.7 kg (10.3 lbs), with four batteries 7.4 kg (16.3)

## Dimensions\*



\* Dimensions in mm  
(1 inch = 25.4 mm)

# DEWE-UPS-300-DC

DEWE-UPS-300-DC has an isolated input voltage range from 10 to 36 V<sub>DC</sub>. At this voltage, the system offers 24 V<sub>DC</sub> @ 300 W on the output. Using the exclusive battery mode the output range is between 12 and 16 V<sub>DC</sub>.

**Attention:** Please try to avoid to supply other devices and charge batteries at the same time. This may cause an automatic power-off due to high current consumption and overheating!

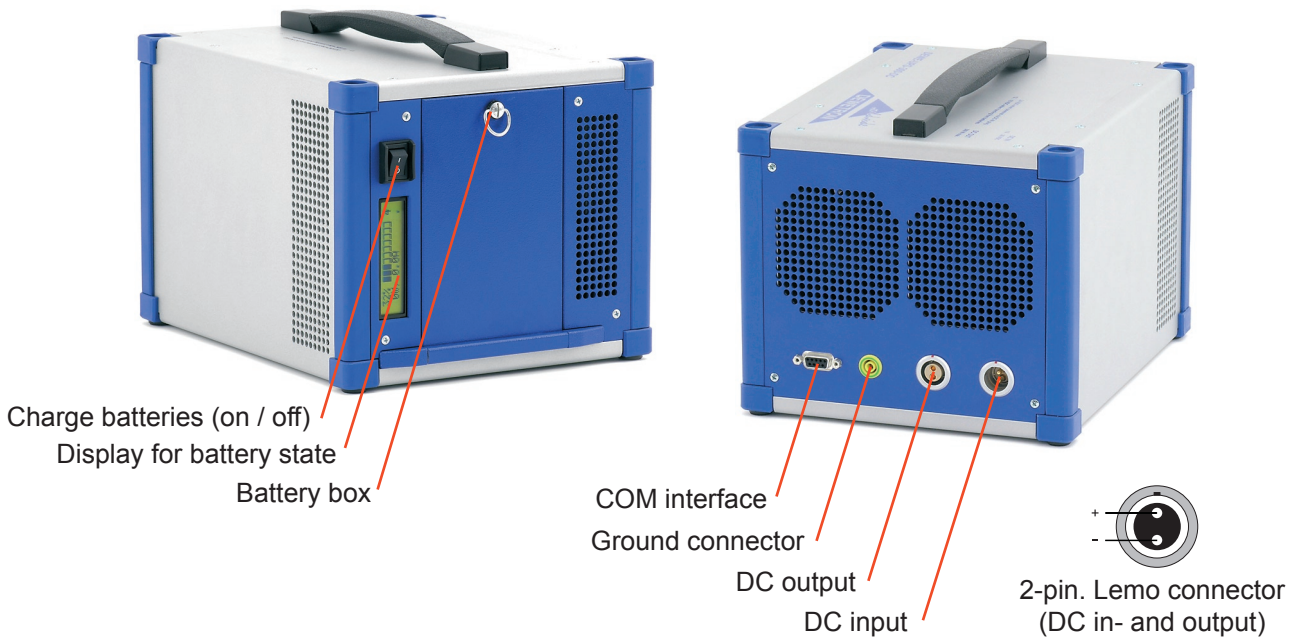
If the system switches off automatically, the “battery state” display shows four batteries but no charge state. In this case you have to reset the DEWE-UPS-300-DC. Switch off the “Charge batteries” switch and remove the batteries for a short time.

If you want to supply another device through this system, the “Charge batteries” switch has to be in “On” position and the batteries should be charged completely. In this case the DEWE-300-DC-UPS provides 300 W power for one hour to the output if there is a power loss at the input. Be aware that the batteries can't be exchanged during full load condition!

**Attention:** Disconnect supplied devices from the system output if they are unused for more than one day. Store the batteries separated if the system is unused for more than two weeks, otherwise they will be discharged and can be damaged.

The charge / discharge state is noticed at the integrated display or can be read out by PC. Therefore you have to install the included software (Minibats) on your PC, then you have to connect your PC to the DEWE-UPS-300-DC via COM interface and the COM port in the software. The software also offers a shut-down function to power-off a PC automatically before batteries are empty.

## Connectors



**Attention:** Use only original batteries or replacements from DEWETRON to avoid damages!

# Declaration of conformity

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Following products are in conformity with EN50081 (Electromagnetic compatibility, generic emission standard for light and heavy industry) and EN50082 (Electromagnetic compatibility, generic immunity standard for light and heavy industry):

**DEWE-2000 / DEWE-2010 / DEWE-2500 series**

**DEWE-3000 / DEWE-3010 / DEWE-3020 series**

**DEWE-4000 / DEWE-4010 series**

**DEWE-500 series**

**DEWE-5000 series**

**DEWE-600 series**

**DEWE-800 series**

**DEWE-900 series**

**DEWE-BOOK series**

**DEWE-RACK series**

**DAQ / MDAQ modules series**

**PAD / EPAD modules series**

Note: Enhanced EMC specifications are achieved when using DC power supply input.

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Graz, Nov. 15th, 2004



Ing. Herbert Wernigg  
Managing director

# Notes

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