

## Data sheet

Commercial Art.No.: 81.000.6230.0

Uninterruptible power supply USV-DC WIPOS UPS 20-960

wipos Uninterruptible power supply (UPS); Combi unit DC-UPS and DC-DC converter; Bridges longer power failures in combination with a battery module and power supply; Integrated battery charge controller and battery monitoring function for 12..48V batteries; Supports lead acid batteries, nickel and lithium batteries up to 400Ah; Can also be used in conjunction with Supercab modules; Battery voltage independent of input and output voltage; Input nominal 12-48 V DC; Battery connection 10-60 V DC; Load output nominal 12-48 V DC (=  $V_{in}$  for UPS, depending on DC-DC mode setting) / max. 20A; External input with programmable function, 2x programmable relay output, 4 operating buttons and graphic color display for status and alarm messages; Operation / setting and diagnostics with wiposPlan software; Modbus via USB and RS485 interface for operation and diagnostics; W x H x D: 54 x 115 x 110 mm



|                    |               |
|--------------------|---------------|
| Commercial Art.No. | 81.000.6230.0 |
| EAN                | 4049088486814 |
| Order Unit         | 1             |

Certificates / Approvals



## Technical data

### General

|                                      |                  |
|--------------------------------------|------------------|
| Connection type                      | screw connection |
| Rail mounting possible               | yes              |
| Housing material                     | aluminum         |
| Operating temperature min.           | -40 °C           |
| Operating temperature max.           | 80 °C            |
| relative humidity min.               | 5 %              |
| relative humidity max.               | 95 %             |
| Storage temperature / transport min. | 80 °C            |
| Storage temperature / transport max. | -40 °C           |
| Degree of protection (IP)            | IP20             |
| Pollution degree                     | 2                |

### Technical data

|                                  |   |
|----------------------------------|---|
| Number of inputs                 | 2   |
| Number of HW-interfaces RS485    | 1   |
| Number of HW-interfaces USB      | 1   |
| Display                          | LED   |
| Function display                 | 1,5" color graphic LCD  |
| MTBF                             | > 600'000h at 25°C ambient full load  |
| Connector cross section (input)  | 2,5mm <sup>2</sup> (24...12AWG)   |
| Connector cross section (output) | 2,5mm <sup>2</sup> (24...12AWG)   |
| CE-Norm                          | EN55011, EN55022, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN60529 |

|                           |   |
|---------------------------|---|
| Shock                     | IEC 60068-2-27                                  |
| EMC-version               | yes   |
| Vibration                 | IEC 60068-2-6                                   |
| Safety Standards          | UL508, EN60950                                  |
| battery type              | Lead Acid, Nickel, Lithium, SUpercap capacitors |
| Output protection battery | Overcurrent, Deep discharge, Reverse polarity   |
| charging current > 10Ah   | 20 A  |

#### Output

|                           |   |
|---------------------------|---|
| Power output              | 960 W   |
| Output voltage            | 24 V  |
| Min. output voltage       | 12 V  |
| Max. output voltage       | 48 V  |
| Output current            | 20 A  |
| Output protection battery | Overcurrent, Deep discharge, Reverse polarity |

#### Input

|                                 |       |
|---------------------------------|-------|
| Type of voltage (input voltage) |       |
| Power consumption               | < 4 W |
| Input voltage DC min.           | 10 V  |
| Input voltage DC max.           | 60 V  |
| Input current, max.             | 20 A  |

#### Dimensions

|        |          |
|--------|----------|
| Depth  | 134 mm   |
| Width  | 54 mm    |
| Height | 123.7 mm |
| Weight | 500 g    |

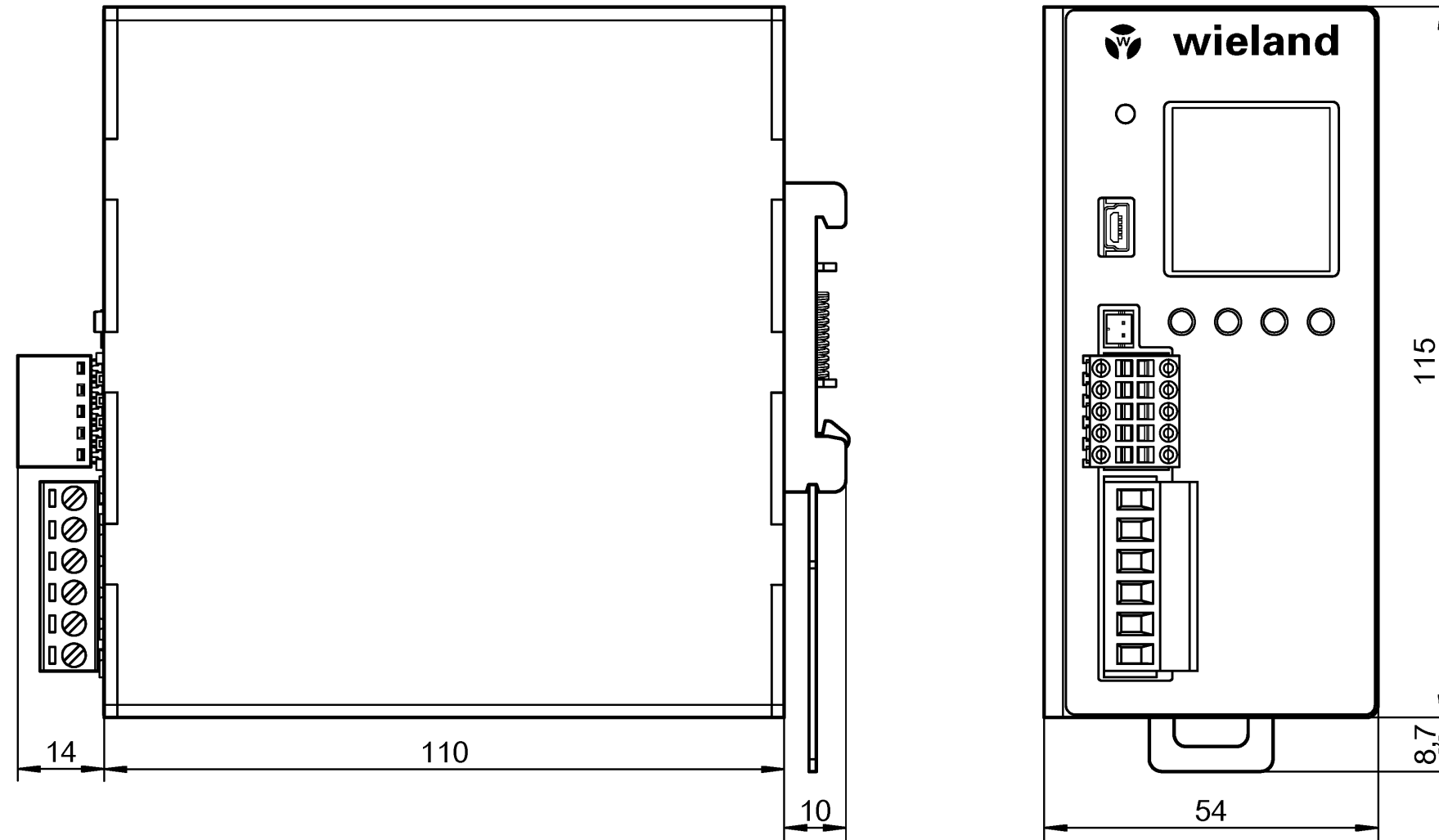
#### Classification

|            |          |
|------------|----------|
| ECLASS 11  |          |
| ECLASS 8.1 | 27049002 |
| ETIM 7.0   | EC002540 |
| ETIM 6.0   | EC002540 |
| ETIM 5.0   | EC002540 |

#### Product compliance

|                              |           |
|------------------------------|-----------|
| ROHS conformity status       | Compliant |
| REACH-SVHC conformity status | Compliant |

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|   |  |                               |   |  |          |                              |   |
|---|--|-------------------------------|---|--|----------|------------------------------|---|
| Weitere Angaben siehe KATALOG oder eKatalog.<br>Additional data see CATALOG or eCatalog.  |  |                               |   | www.wieland-electric.com<br>eshop.wieland-electric.com |          |                              |   |
| ja/yes <input checked="" type="checkbox"/> Stoffverbots- und Deklarationsliste nach WN 5020.010 ist einzuhalten.<br>Conformity with Wieland document WN 5020.010 e (list of prohibited / declarable hazardous substances) to be declared! |  |                               |   |  |          |                              |   |
| Freitoleranz nach<br>General tolerance  |  |                               | CAD-Zeichnung, keine manuellen Änderungen<br>CAD drawing, no manual modifications allowed |  |          | 1. Verwendung:<br>First Use: | Blatt:<br>Sheet:  |
|   |  | Werkstoff / Material          |   | 2018   | Tag/Date | Name                         | Zeichnung Nr. / Drawing No.   |
|   |  | Maßstab/Scale                 |   | gezeichnet<br>drawn                                    | 28.11.   | Koetzner                     | 81.000.6230.0 01K   |
|   |  |                               |   | geprüft<br>checked                                     |          |                              | Maße in mm / Dimensions are in mm   |
|   |  |                               |   | Normgepr.<br>Stand. check                              |          |                              |   |
| Datei / File: 045841__01K.DCD   |  |                               |   | Ersatz für / Replacement for:                          |          |                              |   |
| Index   |  | Datum / Blatt<br>Date / Sheet |   | wieland<br>www.wieland-electric.com                    | Type     | Benennung / Title            | Teilespezifikation /<br>Component specification<br>USV-DC<br>wipos UPS 20-960 |
|   |  | Änderung / Revision           |   |  |          |                              |   |

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