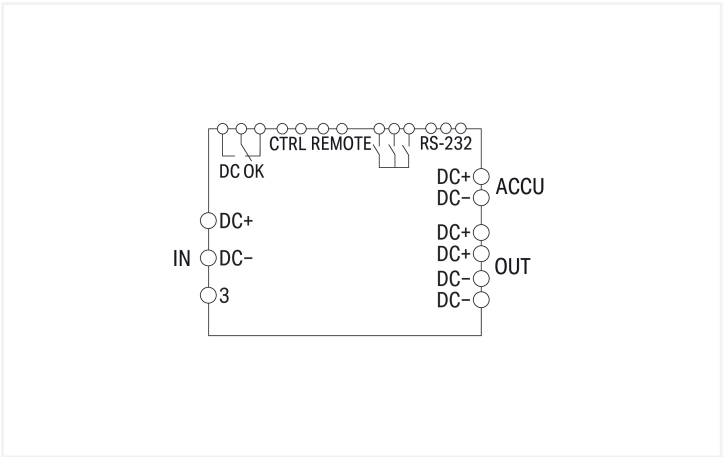




Features:

- Charger and controller for uninterruptible power supply (UPS)
- Current and voltage monitoring, as well as parameter setting via LCD and RS-232 interface
- Active signal outputs for function monitoring
- Remote input for deactivating the buffered output
- Input for temperature control of connected battery
- Battery control (from manufacturing no. 215563 onwards) detects both battery life and battery type

| Technical data                     |                                                                |                                     |                                                                |
|------------------------------------|----------------------------------------------------------------|-------------------------------------|----------------------------------------------------------------|
| Input                              |                                                                | Output                              |                                                                |
| Nominal input voltage $U_{i\,nom}$ | 24 VDC                                                         | Nominal output voltage $U_{o\,nom}$ | 24 VDC                                                         |
| Input voltage range                | 22 ... 29 VDC                                                  | Output voltage range                | $U_i$ - 1 VDC (rated operation); 20 ... 25.5 VDC (buffer mode) |
| Nominal mains frequency range      | 0 Hz                                                           | Nominal output current $I_{o\,nom}$ | 10 A                                                           |
| Input current $I_i$                | $\leq 0.1$ A (no load); $\leq 0.8$ A (charging); $\leq 10.8$ A | Current limitation                  | $1.1 \dots 1.4 \times I_{o\,nom}$ (typ.)                       |
| Inrush current                     | $\leq 4$ A (no load)                                           |                                     |                                                                |

| Energy storage systems     |                                                                  | Signaling and Communication |                                                                                                                                                                                                                                |
|----------------------------|------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Buffer time                | 10 s ... 10 min or constant; adjustable                          | Signaling                   | 1 x DC OK LED (green)<br>1 x Warning LED (yellow)<br>1 x Error LED (red)<br>LCD<br>3 x Signal output (24 VDC; max. 25 mA)<br>1 x Isolated relay contact (max. 30 VDC; 1 A)<br>1 x RS-232 interface<br>Battery control (C+; C-) |
| Switch-on threshold        | DC 20 ... 25.5 V (adjustable)                                    | Operation status indicator  | Green LED ( $U_o$ )<br>Yellow LED (warning)<br>Red LED (error)                                                                                                                                                                 |
| Memory type                | Lead-acid fleece                                                 | Communications              | RS-232 serial interface                                                                                                                                                                                                        |
| Charging current           | $\leq 0.6$ A                                                     | Remote input                | Switching buffer mode off                                                                                                                                                                                                      |
| End-of-charge voltage      | 26 ... 29.5 VDC (temperature-controlled; optional fixed setting) |                             |                                                                                                                                                                                                                                |
| Recommended battery module | 787-871, 787-872, 787-873, 787-876, 787-1671                     |                             |                                                                                                                                                                                                                                |



| Efficiency/Power Losses   |                               |
|---------------------------|-------------------------------|
| Power loss P <sub>I</sub> | ≤ 15 W; ≤ 20 W (nominal load) |
| Efficiency (typ.)         | 95 %                          |

| Circuit Protection |        |
|--------------------|--------|
| Internal fuse      | T 15 A |

| Safety and protection                    |                                                                                                                                    |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Isolation voltage (connectors – housing) | 0.5 kVDC                                                                                                                           |
| Protection class                         | III                                                                                                                                |
| Protection type                          | IP20; per EN 60529                                                                                                                 |
| Reverse voltage protection               | Yes                                                                                                                                |
| Resistance to reverse feed               | ≤ 35 VDC                                                                                                                           |
| Pollution degree                         | 2                                                                                                                                  |
| Parallel operation                       | Yes, max. 3 battery modules for buffer time extension (temperature measurement evaluation is only possible via one battery module) |
| Series operation                         | No                                                                                                                                 |
| MTBF                                     | > 500,000 h (per IEC 61709)                                                                                                        |

| Connection Data         |                                      |
|-------------------------|--------------------------------------|
| Cable length (max.)     | 3 m (input, output, battery control) |
| Connection 1            |                                      |
| Connection type         | Input/output                         |
| Connection technology   | CAGE CLAMP®                          |
| WAGO connector          | WAGO 231 Series                      |
| Solid conductor         | 0.08 ... 2.5 mm² / 28 ... 12 AWG     |
| Fine-stranded conductor | 0.08 ... 2.5 mm² / 28 ... 12 AWG     |
| Strip length            | 8 ... 9 mm / 0.31 ... 0.35 inches    |

| Connection 2            |                                  |
|-------------------------|----------------------------------|
| Connection type         | Signaling                        |
| Connection technology   | CAGE CLAMP®                      |
| WAGO connector          | WAGO 733 Series                  |
| Solid conductor         | 0.08 ... 0.5 mm² / 28 ... 20 AWG |
| Fine-stranded conductor | 0.08 ... 0.5 mm² / 28 ... 20 AWG |
| Strip length            | 5 ... 6 mm / 0.2 ... 0.24 inches |

| Physical data                     |                       |
|-----------------------------------|-----------------------|
| Width                             | 40 mm / 1.575 inches  |
| Height                            | 163 mm / 6.417 inches |
| Depth from upper-edge of DIN-rail | 163 mm / 6.417 inches |
| Note (dimensions)                 | Height with connector |

| Mechanical data |             |
|-----------------|-------------|
| Mounting type   | DIN-35 rail |



| Material data |  |       |
|---------------|--|-------|
| Fire load     |  | 0 MJ  |
| Weight        |  | 800 g |

| Environmental requirements      |  |                                          |
|---------------------------------|--|------------------------------------------|
| Ambient temperature (operation) |  | -10 ... +60 °C                           |
| Ambient temperature (storage)   |  | -25 ... +85 °C                           |
| Relative humidity               |  | 5 ... 96 % (no condensation permissible) |

| Standards and Specifications |  |                                                                                    |
|------------------------------|--|------------------------------------------------------------------------------------|
| Conformity marking           |  | CE                                                                                 |
| Standards/specifications     |  | EN 61010-1<br>EN 61010-2-201<br>UL 60950<br>UL 508<br>EN 61000-6-2<br>EN 61000-6-3 |

| Commercial data       |  |                          |
|-----------------------|--|--------------------------|
| Product Group         |  | 6 (INTERFACE ELECTRONIC) |
| PU (SPU)              |  | 1 pcs                    |
| Packaging type        |  | Box                      |
| Country of origin     |  | DE                       |
| GTIN                  |  | 4045454909857            |
| Customs tariff number |  | 85044060900              |

| Product Classification |  |                      |
|------------------------|--|----------------------|
| UNSPSC                 |  | 39121006             |
| eCl@ss 10.0            |  | 27-04-06-90          |
| eCl@ss 9.0             |  | 27-04-06-90          |
| ETIM 9.0               |  | EC000382             |
| ETIM 10.0              |  | EC000382             |
| ECCN                   |  | NO US CLASSIFICATION |

| Environmental Product Compliance |  |                        |
|----------------------------------|--|------------------------|
| RoHS Compliance Status           |  | Compliant,No Exemption |

Approvals / Certificates

| General approvals                                                                                                                                                                                                                                          |                |               | Declarations of conformity and manufacturer's declarations |          |                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------|------------------------------------------------------------|----------|------------------|
|    |                |               | Approval                                                   | Standard | Certificate Name |
| EAC                                                                                                                                                                                                                                                        | TP TC 020/2011 | EAC CoC 03081 | EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -        | -                |
| GZO Almaty Standart                                                                                                                                                                                                                                        |                |               | UK-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -        | -                |
| UL                                                                                                                                                                                                                                                         | UL 508         | E255817       |                                                            |          |                  |
| Underwriters Laboratories Inc.                                                                                                                                                                                                                             |                |               |                                                            |          |                  |
| UR                                                                                                                                                                                                                                                         | UL 60950-1     | E255815       |                                                            |          |                  |
| Underwriters Laboratories Inc.                                                                                                                                                                                                                             |                |               |                                                            |          |                  |



| Downloads                                |  |  |                   |
|------------------------------------------|--|--|-------------------|
| Environmental Product Compliance         |  |  |                   |
| Compliance Search                        |  |  |                   |
| Environmental Product Compliance 787-870 |  |  | <a href="#">↓</a> |

| Documentation                   |         |                         |                   |
|---------------------------------|---------|-------------------------|-------------------|
| Quick-Start Guide               |         | Bid Text                |                   |
| Quickstart for Software 759-870 | V 1.0.0 | pdf                     | <a href="#">↓</a> |
|                                 |         | 3043.43 KB              |                   |
|                                 |         | 787-870                 | <a href="#">↓</a> |
|                                 |         | 12.07.2019              |                   |
|                                 |         | xml                     | <a href="#">↓</a> |
|                                 |         | 7.79 KB                 |                   |
|                                 |         | 787-870                 | <a href="#">↓</a> |
|                                 |         | 12.07.2019              |                   |
|                                 |         | docx                    | <a href="#">↓</a> |
|                                 |         | 22.98 KB                |                   |
|                                 |         | ausschreiben.de 787-870 | <a href="#">↓</a> |

| Instruction Leaflet          |            |            |                   |
|------------------------------|------------|------------|-------------------|
| Uninterruptible power supply | 27.04.2020 | pdf        | <a href="#">↓</a> |
|                              |            | 1264.21 KB |                   |

| CAD/CAE-Data         |                           |
|----------------------|---------------------------|
| CAD data             | CAE data                  |
| 2D/3D Models 787-870 | EPLAN Data Portal 787-870 |
| <a href="#">↓</a>    | <a href="#">↓</a>         |
|                      | WSCAD Universe 787-870    |
|                      | <a href="#">↓</a>         |
|                      | ZUKEN Portal 787-870      |
|                      | <a href="#">↓</a>         |

| Engineering-Software                     |                 |             |                   |
|------------------------------------------|-----------------|-------------|-------------------|
| Configuration and Commissioning Software |                 |             |                   |
| WAGO UPS Shutdown Tool                   | 4.13 18.11.2021 | exe         | <a href="#">↓</a> |
|                                          |                 | 48463.53 KB |                   |
| WAGO Software 759-870                    | 4.13 10.05.2021 | zip         | <a href="#">↓</a> |
|                                          |                 | 38762.69 KB |                   |



Libraries

| Library                                |                     |                  |  |
|----------------------------------------|---------------------|------------------|--|
| Anbindung Stromver-sorgungen Serie 787 | 1.3.0<br>14.05.2014 | zip<br>549.48 KB |  |

1 Compatible Products

1.1 Optional Accessories

1.1.1 Cables and connectors

1.1.1.1 Communication cable



[Item No.: 787-890](#)  
RS-232 communication cable; Length 1.8 m

1.1.1.2 Connecting cable



[Item No.: 761-9005](#)  
USB adapter; with 1m connection cable

1.1.2 Marking

1.1.2.1 Marking strip



[Item No.: 2009-110](#)  
Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white



[Item No.: 210-831](#)  
Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white



[Item No.: 210-832](#)  
Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white

1.1.3 Mounting adapter

1.1.3.1 DIN-rail adapter



[Item No.: 787-897](#)  
Carrier rail adapter made of zinc die-cast; for mounting 787-8xx devices to a DIN 35 rail; gray



[Item No.: 787-896](#)  
Carrier rail adapter; for mounting 787-8xx devices to a DIN 35 rail; gray

1.1.3.2 Wall-mount adapter



[Item No.: 787-895](#)  
Mounting carrier; for screw fixing of 787-8xx devices on mounting plate or wall without DIN 35 rail; gray



1.1.4 Power supply

1.1.4.1 Uninterruptible power supply



**Item No.: 787-871**  
Lead-acid AGM battery module; 24 VDC input voltage; 20 A output current; 3.2 Ah capacity; with battery control



**Item No.: 787-873**  
Lead-acid AGM battery module; 24 VDC input voltage; 40 A output current; 12 Ah capacity; with battery control



**Item No.: 787-872**  
Lead-acid AGM battery module; 24 VDC input voltage; 40 A output current; 7 Ah capacity; with battery control



**Item No.: 787-1671**  
Lead-acid AGM battery module; 24 VDC input voltage; 5 A output current; Capacity: 0.8 Ah; with battery control



**Item No.: 787-876**  
Lead-acid AGM battery module; 24 VDC input voltage; 7.5 A output current; 1.2 Ah capacity; with battery control

1.1.5 Tool

1.1.5.1 Operating tool



**Item No.: 210-719**  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft



**Item No.: 210-720**  
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured