

## Data sheet | Item number: 787-885

Redundancy Module; 2 x 24 VDC input voltage; 2 x 20 A input current; 24 VDC output voltage; 40 A output current; communication capability; 10,00 mm<sup>2</sup>

[www.wago.com/787-885](http://www.wago.com/787-885)



### Item description

#### Features:

- Redundancy module with two inputs decouples two power supplies
- For redundant and fail-safe power supply
- With LED and potential-free contact for input voltage monitoring on site and remotely

Subject to changes. Please also observe the further product documentation!

---

WAGO GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.

## Data

### Technical data

#### Input

Nominal input voltage $U_{i\text{ nom}}$	2 x DC 24 V
Input voltage range	2 x DC 18 ... 30 V
Nominal mains frequency range	0 Hz
Input current $I_i$	$\leq 20$ A (per path); $\leq 40$ A (in total)

#### Output

Nominal output voltage $U_{o\text{ nom}}$	DC 24 V
Output voltage range	DC 18 ... 30 V ( $U_e$ - voltage drop)
Voltage drop	$\leq 0.6$ V (Input/output)
Nominal output current $I_{o\text{ nom}}$	20 A (redundancy operation); 40 A (Parallel operation)
Nominal output power	960 W

#### Signaling and Communication

Signaling	1 x OUT LED (green) 1 x IN1 LED (yellow) 1 x IN2 LED (yellow)
Operation status indicator	Green LED ( $U_o$ ) 2 x Yellow LED ( $U_i$ )

#### Efficiency/power losses

Power loss $P_i$	$\leq 1.5$ W; $\leq 14$ W (24 VDC; 20 A); $\leq 26$ W (48 VDC; 40 A)
Efficiency (typ.)	97 %

#### Circuit protection

Internal fuse	No
---------------	----

#### Safety and protection

Protection class	III
Protection type	IP20; per EN 60529
Reverse voltage protection	Yes

Subject to changes. Please also observe the further product documentation!



Pollution degree	2
Parallel operation	Yes
Series operation	Yes
MTBF	> 500,000 h (per IEC 61709)

### Connection data

Connection type 1	Input/output
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 831 Series
Solid conductor	0.5 ... 10 mm <sup>2</sup> / 20 ... 8 AWG
Fine-stranded conductor	0.5 ... 10 mm <sup>2</sup> / 20 ... 8 AWG
Strip length	13 ... 15 mm / 0.51 ... 0.59 inches
Connection type 2	Relay
Connection technology 2	CAGE CLAMP®
WAGO connector 2	WAGO 231 Series
Solid conductor 2	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG
Fine-stranded conductor 2	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG
Strip length 2	8 ... 9 mm / 0.31 ... 0.35 inches

### Physical data

Width	40 mm / 1.575 inches
Height	181 mm / 7.126 inches
Depth from upper-edge of DIN-rail	163 mm / 6.417 inches
Note (dimensions)	Height with connector Height with connector

### Mechanical Data

Mounting type	DIN-35 rail
---------------	-------------

### Material Data

Weight	972 g
--------	-------

### Environmental requirements

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

Subject to changes. Please also observe the further product documentation!



## Standards and specifications

Conformity marking	CE
Standards/specifications	EN 60950 UL 60950 UL 508 EN 61000-6-2 EN 61000-6-3

## Commercial data

Product Group	6 (INTERFACE ELECTRONIC)
eCl@ss 10.0	27-04-07-01
eCl@ss 9.0	27-04-07-01
ETIM 8.0	EC002540
ETIM 7.0	EC002540
Recupel Type	
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4045454909802
Customs tariff number	85044095900

## Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
------------------------	-------------------------

## Approvals / Certificates

### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>EAC</b> Brjansker Zertifizierungsstelle	TP TC 020/2011	EAC_Certificate_RU_C-DE.AM02.B.00115_19
	<b>UL</b> Underwriters Laboratories Inc.	UL 60950-1	E255815
	<b>UL</b> Underwriters Laboratories Inc.	UL 508	E255817

### Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	<b>EU-Declaration of Conformity</b>	-	-

Subject to changes. Please also observe the further product documentation!

WAGO GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.

WAGO GmbH &amp; Co. KG

## Optional accessories

### Mounting adapter

#### Wall-mount adapter

<b>Item no.: 787-895</b> Mounting carrier; for screw fixing of 787-8xx devices on mounting plate or wall without DIN 35 rail	<a href="http://www.wago.com/787-895">www.wago.com/787-895</a>
---	--

#### DIN-rail adapter

<b>Item no.: 787-897</b> Carrier rail adapter made of zinc die-cast; for mounting 787-8xx devices to a DIN 35 rail	<a href="http://www.wago.com/787-897">www.wago.com/787-897</a>
---	--

<b>Item no.: 787-896</b> Carrier rail adapter; for mounting 787-8xx devices to a DIN 35 rail	<a href="http://www.wago.com/787-896">www.wago.com/787-896</a>
---	--

### Tool

#### Operating tool

<b>Item no.: 210-721</b> Operating tool; Blade: 5.5 x 0.8 mm; with a partially insulated shaft; multicoloured	<a href="http://www.wago.com/210-721">www.wago.com/210-721</a>
--	--

<b>Item no.: 210-720</b> Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured	<a href="http://www.wago.com/210-720">www.wago.com/210-720</a>
--	--

### Marking accessories

#### Marking strip

<b>Item no.: 2009-110</b> Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white	<a href="http://www.wago.com/2009-110">www.wago.com/2009-110</a>
--	--

<b>Item no.: 210-831</b> Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white	<a href="http://www.wago.com/210-831">www.wago.com/210-831</a>
---	--

<b>Item no.: 210-832</b> Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white	<a href="http://www.wago.com/210-832">www.wago.com/210-832</a>
---	--

#### Marker

<b>Item no.: 2009-145</b> Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white	<a href="http://www.wago.com/2009-145">www.wago.com/2009-145</a>
--	--

<b>Item no.: 2009-115</b> WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white	<a href="http://www.wago.com/2009-115">www.wago.com/2009-115</a>
---	--

<b>Item no.: 248-501</b> Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white	<a href="http://www.wago.com/248-501">www.wago.com/248-501</a>
---	--

<b>Item no.: 793-501</b> WMB marking card; as card; not stretchable; plain; snap-on type; white	<a href="http://www.wago.com/793-501">www.wago.com/793-501</a>
--	--

<b>Item no.: 793-5501</b> WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on	<a href="http://www.wago.com/793-5501">www.wago.com/793-5501</a>
--	--

Subject to changes. Please also observe the further product documentation!

WAGO GmbH &amp; Co. KG

Hansastr. 27

32423 Minden

Phone: +49571 887-0 | Fax: +49571 887-169

Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?

We are always happy to take your call at +49 (571) 887-44222.



type; white

## Downloads

### Documentation

#### Bid Text

787-885 X81 - Datei	2019 年7月15 日	xml 6.1 kB	Download
------------------------	--------------	---------------	----------

787-885 docx - Datei	2019 年7月15 日	docx 22.5 kB	Download
-------------------------	--------------	-----------------	----------

#### Instruction Leaflet

Redundanzmodul DC 24 V, 20 A		pdf 278.8 kB	Download
---------------------------------	--	-----------------	----------

#### Additional Information

Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging	V 1.1.0 2022 年8月18 日	pdf 2.2 MB	Download
---	-------------------------	---------------	----------

## CAD/CAE-Data

### CAD data

2D/3D Models 787-885		URL	Download
----------------------	--	-----	----------

### CAE data

WSCAD Universe 787-885		URL	Download
------------------------	--	-----	----------

ZUKEN Portal 787-885		URL	Download
----------------------	--	-----	----------

EPLAN Data Portal 787-885		URL	Download
---------------------------	--	-----	----------

## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 787-885		URL	Download
--	--	-----	----------

Subject to changes. Please also observe the further product documentation!



Redundancy Module; 2 x 24 VDC input voltage; 2 x 20 A input current; 24 VDC output voltage; 40 A output current; communication capability; 10,00 mm<sup>2</sup>

---

## Installation Notes

Subject to changes. Please also observe the further product documentation!

---

WAGO GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.