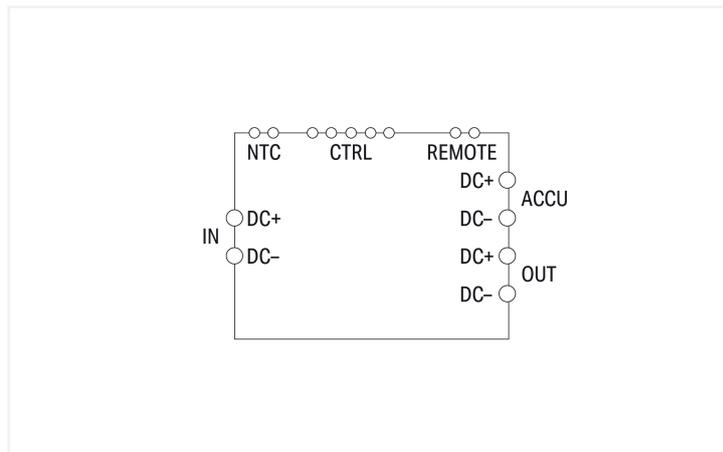


# Data Sheet | Item Number: 787-915

UPS charger and controller; 24 VDC input voltage; 24 VDC output voltage; 40 A output current

<https://www.wago.com/787-915>



## Features:

- DC UPS module for uninterruptible power supply (UPS)
- Potential-free contacts provide function monitoring
- Remote input for buffered output deactivation
- Input for temperature control of connected battery
- Battery internal resistance measurement for diagnosing batteries, including the connection cable and fuse

## Notes

Safety Information For North America: Use only batteries with appropriate safety approvals!

## Technical data

Input	
Nominal input voltage $U_{i\text{nom}}$	24 VDC
Input voltage range	22 ... 28 VDC
Nominal mains frequency range	0 Hz
Input current $I_i$	$\leq 0.16$ A (no load); $\leq 4$ A (Charging); $\leq 44$ A

Output	
Nominal output voltage $U_{o\text{nom}}$	24 VDC
Output voltage range	$U_i$ (rated operation); 19.5 ... 26.5 VDC (battery voltage in buffer mode)
Nominal output current $I_{o\text{nom}}$	40 A

## Energy storage systems

Buffer time	load-dependent
Switch-on threshold	DC 21.5 ... 22.5 V (adjustable)
Memory type	Lead-acid fleece
Charging current	1 ... 4 A (Adjustable in 1 A steps via DIP switch, preset: 2 A)
End-of-charge voltage	26.4 ... 29 VDC (Temperature-controlled with NTC; without temperature sensor: 27.2 VDC)
Recommended battery module	Typ: VRLA 24 V; 7 ... 40 Ah

## Signaling and communication

Signaling	1 x Power LED (green) 1 x UPS LED (yellow) 1 x Warning LED (red) 2 x Isolated relay contact (max. 30 VDC; 1 A)
Operation status indicator	Green LED (operation) Yellow LED (buffer mode/charging) Red LED (warning)
Remote input	Switching buffer mode off

### Efficiency/power losses

Power loss $P_1$	$\leq 4 \text{ W}; \leq 22.5 \text{ W}$ (nominal load)
Efficiency (typ.)	97 % (Rated operation); 85 % (Charging)

### Circuit protection

Internal fuse	T 6.3 A (charging circuit)
Backup fuse (recommended)	T 50 A

### Safety and protection

Isolation voltage (connectors – housing)	0.5 kVDC
Protection class	III
Protection type	IP20; Per EN 60529
Reverse voltage protection	Yes
Pollution degree	2
Parallel operation	No
Series operation	No
MTBF	600,000 h (40 °C; per SN 29500)

### Connection data

#### Connection 1

Connection type	Input/output
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 2636 Series
Solid conductor	0.75 ... 16 mm <sup>2</sup> / 18 ... 4 AWG
Fine-stranded conductor	0.75 ... 25 mm <sup>2</sup> / 18 ... 4 AWG
Fine-stranded conductor; with insulated ferrule	0.75 ... 16 mm <sup>2</sup>
Fine-stranded conductor; with uninsulated ferrule	0.75 ... 16 mm <sup>2</sup>
Strip length	18 ... 20 mm / 0.71 ... 0.79 inches

#### Connection 2

Connection type	Signaling
Connection technology	CAGE CLAMP®
WAGO connector	WAGO 741 Series
Solid conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 1.5 mm <sup>2</sup>
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 1.5 mm <sup>2</sup>
Strip length	5 ... 6 mm / 0.2 ... 0.24 inches

### Physical data

Width	68 mm / 2.677 inches
Height	181 mm / 7.126 inches
Depth from upper-edge of DIN-rail	162 mm / 6.38 inches

### Mechanical data

Mounting type	DIN-35 rail
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### Material data

Fire load	0 MJ
Weight	1100 g

### Environmental requirements

Ambient temperature (operation)	0 ... +50 °C
Ambient temperature (storage)	-20 ... +55 °C
Relative humidity	5 ... 95 % (no condensation permissible)

**Standards and specifications**

Conformity marking	CE
Standards/specifications	EN 62368-1 EN 61000-6-2 EN 61000-6-3
Standards/specifications (pending)	CSA

**Commercial data**

PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4066966454925
Customs tariff number	85044083900

**Product Classification**

UNSPSC	39121006
ETIM 9.0	EC000382
ETIM 10.0	EC000382
ECCN	NO US CLASSIFICATION

**Environmental Product Compliance**

RoHS Compliance Status	Compliant, No Exemption
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**Approvals / Certificates**

**General approvals** **Declarations of conformity and manufacturer's declarations**



Approval	Standard	Certificate Name
CSA CSA Group	CAN/CSA-C22.2 No. 62368-1	70216154
EAC GZO Almaty Standart	TP TC 004/2011	EAC CoC 03078
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03081

Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

**Downloads**

**Environmental Product Compliance**

Compliance Search
Environmental Product Compliance 787-915

Documentation

Bid Text			
787-915	12.07.2019	docx 21.62 KB	<a href="#">↓</a>
787-915	12.07.2019	xml 7.11 KB	<a href="#">↓</a>

Instruction Leaflet			
UPS charger and control module	14.12.2020	pdf 537.72 KB	<a href="#">↓</a>

CAD/CAE-Data

CAD data	
2D/3D Models 787-915	<a href="#">↓</a>

CAE data	
EPLAN Data Portal 787-915	<a href="#">↓</a>