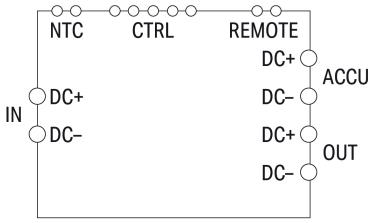
Data Sheet | Item Number: 787-915

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 $U_{i\,nom}$	24 VDC
Input voltage range	22 … 28 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 0.16 A (no load); ≤ 4 A (charging); ≤ 44 A

Output

Nominal output voltage $U_{o\,nom}$	24 VDC
Output voltage range	U_i (rated operation); 19.5 … 26.5 VDC (battery voltage in buffer mode)
Nominal output current $I_{o\,nom}$	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_l	≤ 4 W; ≤ 22.5 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 mm² / 18 … 4 AWG
Fine-stranded conductor	0.75 … 25 mm² / 18 … 4 AWG
Fine-stranded conductor; with insulated ferrule	0.75 … 16 mm²
Fine-stranded conductor; with uninsulated ferrule	0.75 … 16 mm²
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 mm² / 28 … 12 AWG
Fine-stranded conductor	0.08 … 2.5 mm² / 28 … 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 … 1.5 mm²
Fine-stranded conductor; with uninsulated ferrule	0.25 … 1.5 mm²
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

Material data

Weight	1100 g

Environmental requirements

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

Continued on next page

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	85044060900

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

Approvals / Certificates

General approvals

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

Declarations of conformity and manufacturer's declarations

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

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-915

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Documentation

Bid Text

787-915	12.07.2019	docx 21.62 KB
787-915	12.07.2019	xml 7.11 KB

Instruction Leaflet

UPS charger and control module	14.12.2020	pdf 537.72 KB

CAD/CAE-Data

CAD data

2D/3D Models 787-915

CAE data

EPLAN Data Portal
787-915