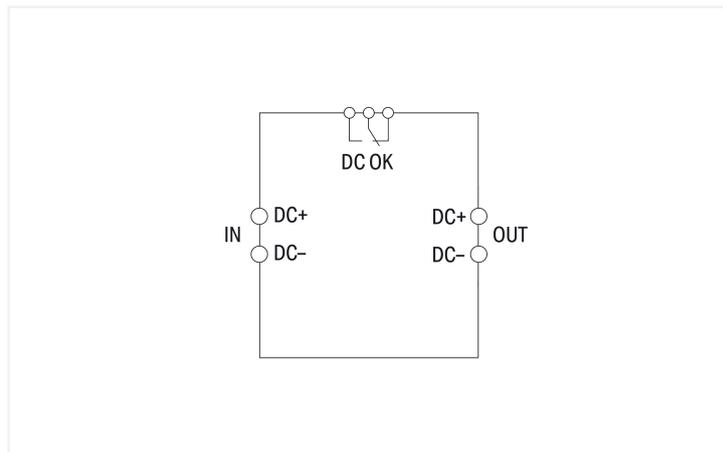


## Data Sheet | Item Number: 787-916

capacitive buffer module; 24 VDC input voltage; 24 VDC output voltage; 40 A output current; Buffer time: 0.3 ... 6.6 s

<https://www.wago.com/787-916>



### Features:

- Capacitive buffer module bridges short duration voltage drops or load fluctuations.
- Internal diode between input and output enables operation with a decoupled output.
- Potential-free contact for charge condition monitoring

### Technical data

Input	
Nominal input voltage $U_{i, \text{nom}}$	24 VDC
Input voltage range	23 ... 30 VDC
Nominal mains frequency range	0 Hz
Input current $I_i$	$\leq 0.06$ A (no load); $\leq 0.8$ A (charging); $\leq 40.8$ A

Output	
Nominal output voltage $U_{o, \text{nom}}$	24 VDC
Output voltage range	$U_i - 0.5$ VDC (mains operation; $I_o = 20$ A); $U_i - 0.8$ VDC (mains operation; $I_o = 40$ A); 20 ... 29 VDC (buffer mode)
Nominal output current $I_{o, \text{nom}}$	40 A

### Energy storage systems

Buffer time	0.3 ... 6.6 s depends on load current and temperature
Switch-on threshold (typ.)	22 VDC
Memory type	Supercaps
Nominal capacity	4.17 F
Nominal voltage	32.4 V
Effective energy content (typ.)	500 Ws
Charging time (typ.)	2.5 min

### Signaling and Communication

Signaling	1 x DC OK LED (green) 1 x UPS LED (yellow) 1 x Warning LED (red) 1 x Isolated relay contact (max. 30 VDC; 1 A)
Operation status indicator	Green LED (DC OK) Yellow LED (buffer mode/charging) Red LED (warning)

### Efficiency/Power Losses

Power loss $P_i$	$\leq 1.9$ W (operation without decoupled output); $\leq 11.5$ W (Operation with decoupled output; $I_o = 20$ A); $\leq 33.5$ W (Operation with decoupled output; $I_o = 40$ A)
Efficiency (typ.)	96.5 %

### Circuit Protection

Internal fuse	No
Backup fuse (recommended)	T 40 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
Service life	74,000 h (25 °C; I <sub>a</sub> = 40 A); 28,200 h (40 °C; I <sub>a</sub> = 40 A)

### 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	900 g

### Environmental requirements

Ambient temperature (operation)	-10 ... +50 °C
Ambient temperature (storage)	-10 ... +60 °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	4066966455021
Customs tariff number	85044083900

**Product Classification**

UNSPSC	39121006
ETIM 9.0	EC002540
ETIM 10.0	EC002540
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**

<b>Compliance Search</b>	
Environmental Product Compliance 787-916	<a href="#">↓</a>

**Documentation**

Bid Text			
787-916	12.07.2019	docx 22.61 KB	↓
787-916	12.07.2019	xml 6.69 KB	↓
ausschreiben.de 787-916			↓

Instruction Leaflet			
Capacitive Buffer module	13.06.2019	pdf 2144.86 KB	↓

**CAD/CAE-Data**

CAD data	
2D/3D Models 787-916	↓

CAE data	
EPLAN Data Portal 787-916	↓