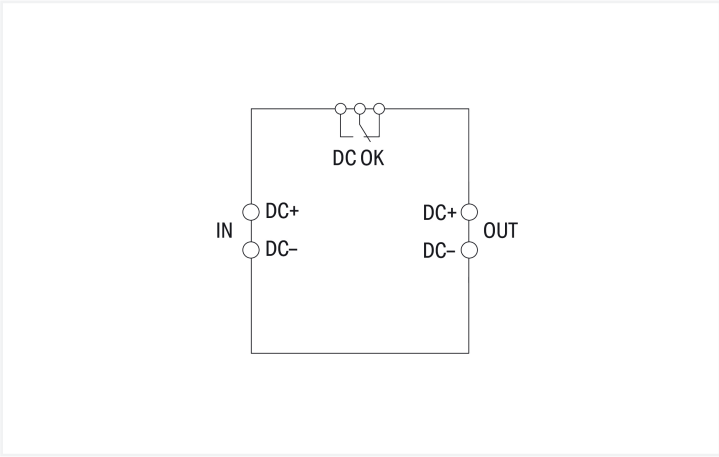
Data Sheet | Item Number: 787-916

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

Output

Nominal output voltage $U_{o\,nom}$	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 $I_{o\,nom}$	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_l	≤ 1.9 W (operation without decoupled output); ≤ 11.5 W (Operation with decoupled output; I_o = 20 A); ≤ 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

Continued on next page

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_a = 40 A); 28,200 h (40 °C; I_a = 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 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	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

Continued on next page

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

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 787-916

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

Continued on next page

CAD/CAE-Data

CAD data	CAE data
2D/3D Models 787-916	EPLAN Data Portal 787-916