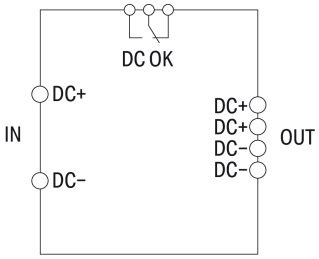
Data Sheet | Item Number: 787-881

Capacitive buffer module; 24 VDC input voltage; 24 VDC output voltage; 20 A output current; 0.17 … 16.5 s buffer time; communication capability; 10,00 mm²

https://www.wago.com/787-881





Features:

- Capacitive buffer module bridges short duration voltage drops or load fluctuations.
- For an uninterruptible power supply
- Internal diode between input and output enables operation with a decoupled output.
- Buffer modules can be readily parallel-connected to increase buffer time or load current.
- Potential-free contact for charge condition monitoring

Technical data

Input

Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	20 … 30 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 0.06 A (no load); ≤ 1 A (charging); ≤ 22 A

Output

Nominal output voltage $U_{o\,nom}$	24 VDC
Output voltage range	U_i - 1 VDC (rated operation); 20.4 … 24 VDC (buffer mode)
Nominal output current $I_{o\,nom}$	20 A
Current limitation	1.1 x $I_{o\,nom}$ (typ.)

Energy storage systems

Buffer time	0.17 … 16.5 s depends on load current and switch-on threshold
Switch-on threshold	DC 20 … 24 V (adjustable)
Memory type	Supercaps
Charging time (typ.)	5 min

Signaling and Communication

Signaling	1 x DC OK LED (green) 1 x Charge LED (yellow) 1 x DC not OK LED (red) 1 x Isolated relay contact (max. 30 VDC; 1 A)
Operation status indicator	Green LED (U_o > 20 V) Yellow LED (charging) Red LED (U_o < 20 V)

Efficiency/Power Losses

Power loss P_l	≤ 1.5 W; ≤ 15 W (nominal load)

Safety and protection

Isolation voltage (connectors – housing)	0.5 kVDC
Protection class	III
Protection type	IP20; per EN 60529
Reverse voltage protection	Yes
Resistance to reverse feed	≤ 35 VDC
Pollution degree	2
Parallel operation	Yes
Series operation	No
MTBF	typ. 87,600 h (at 25 °C); typ. 30,500 h (at 40 °C)

Connection Data

Connection 1

Connection type	Input/output
Connection technology	CAGE CLAMP®
WAGO connector	WAGO 231 Series
Solid conductor	0.5 … 10 mm² / 20 … 8 AWG
Fine-stranded conductor	0.5 … 10 mm² / 20 … 8 AWG
Strip length	13 … 15 mm / 0.51 … 0.59 inches

Connection 2

Connection type	Relay
Connection technology	CAGE CLAMP®
WAGO connector	WAGO 231 Series
Solid conductor	0.08 … 2.5 mm² / 28 … 12 AWG
Fine-stranded conductor	0.08 … 2.5 mm² / 28 … 12 AWG
Strip length	8 … 9 mm / 0.31 … 0.35 inches

Physical data

Width	57 mm / 2.244 inches
Height	181 mm / 7.126 inches
Depth from upper-edge of DIN-rail	179 mm / 7.047 inches
Note (dimensions)	Height with connector

Mechanical data

Mounting type	DIN-35 rail

Material data

Fire load	0.389 MJ
Weight	1000 g

Environmental requirements

Ambient temperature (operation)	-10 … +50 °C
Ambient temperature (storage)	-10 … +60 °C
Relative humidity	5 … 96 % (no condensation permissible)

Standards and Specifications

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

Continued on next page

Commercial data

Product Group	6 (INTERFACE ELECTRONIC)
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4045454909826
Customs tariff number	85049017000

Product Classification

UNSPSC	39121006
eCl@ss 10.0	27-04-07-01
eCl@ss 9.0	27-04-07-01
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
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03081
UL Underwriters Laboratories Inc.	UL 508	E255817

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 787-881

Documentation

Bid Text

787-881	12.07.2019	docx 21.51 KB	
787-881	12.07.2019	xml 6.19 KB	
ausschreiben.de 787-881			

Instruction Leaflet

EPSITRON Capacitive Buffer Modules	pdf 516.78 KB	

Continued on next page

CAD/CAE-Data

CAD data	CAE data
2D/3D Models 787-881	EPLAN Data Portal 787-881
	WSCAD Universe 787-881
	ZUKEN Portal 787-881

1 Compatible Products

1.1 Optional Accessories

1.1.1 Marking

1.1.1.1 Marker



Item No.: 2009-145
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white



Item No.: 248-501
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white

Item No.: 793-5501
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white

Item No.: 793-501
WMB marking card; as card; not stretchable; plain; snap-on type; white



Item No.: 2009-115
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

1.1.1.2 Marking strip



Item No.: 2009-110
Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white



Item No.: 210-831
Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white



Item No.: 210-832
Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white

1.1.2 Mounting adapter

1.1.2.1 DIN-rail adapter



Item No.: 787-897
Carrier rail adapter made of zinc die-cast; for mounting 787-8xx devices to a DIN 35 rail; gray



Item No.: 787-896
Carrier rail adapter; for mounting 787-8xx devices to a DIN 35 rail; gray

1.1.2.2 Wall-mount adapter



Item No.: 787-895
Mounting carrier; for screw fixing of 787-8xx devices on mounting plate or wall without DIN 35 rail; gray

Continued on next page

1.1.3 Tool

1.1.3.1 Operating tool



Item No.: 210-720
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured



Item No.: 210-721
Operating tool; Blade: 5.5 x 0.8 mm; with a partially insulated shaft; multicoloured