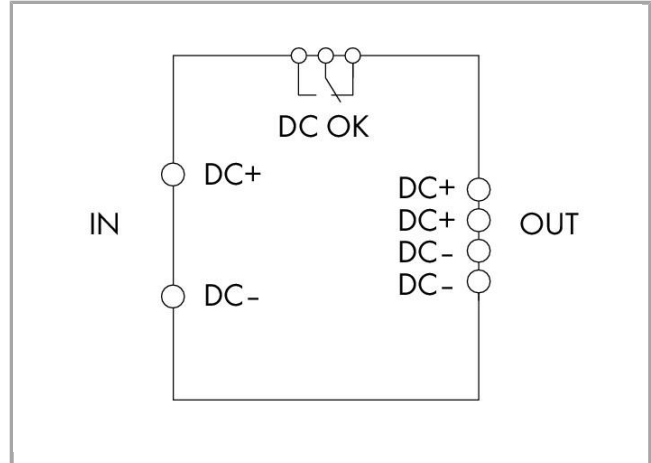


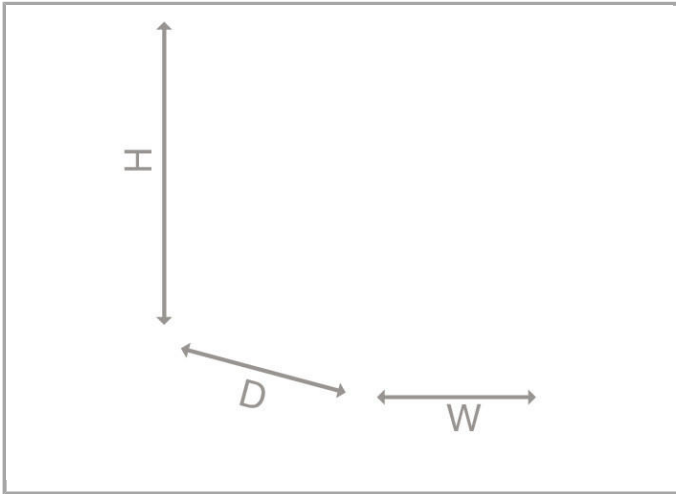
Data sheet | Item number: 787-880

capacitive buffer module; 24 VDC input voltage; 24 VDC output voltage; 10 A output current; 0.06 ... 7.2 s buffer time; communication capability



787-880





Item description

Features:

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

Data

Technical Data

Input

Nominal input voltage $U_{i\text{nom}}$	DC 24 V
Input voltage range	DC 20 ... 30 V
Nominal mains frequency range	0 Hz
Input current I_i	≤ 0.06 A (no load); ≤ 1 A (charging); ≤ 11 A

Output

Nominal output voltage $U_{o\text{nom}}$	DC 24 V
Output voltage range	$U_i - 0.5$ VDC (at nominal operation); 20.4 ... 24 VDC (at buffer operation)
Nominal output current $I_{o\text{nom}}$	10 A
Current limitation	$1.1 \times I_{o\text{nom}}$ typ.

Energy storage

Buffer time	0.06 ... 7.2 s (depends on load current and switch-on threshold)
Switch-on threshold (adjustable)	DC 20 ... 24 V
Charging time typ.	5 min

Signaling and communication

Signaling	1 x LED DC OK (green) 1 x LED charge (yellow) 1 x LED DC not OK (red) 1 x potential-free relay contact (max. 30 VDC, 1 A)
Operation status indicator	LED green ($U_o > 20$ V) LED yellow (charging) LED red ($U_o < 20$ V)

Efficiency/Power losses:

Power loss P_v	≤ 1.5 W (no load); ≤ 6.5 W (nominal load)
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Safety and protection:

Insulation voltage (connectors-housing)	DC 0.5 kV
Protection class	III
Protection class	IP20 (per EN 60529)
Reverse voltage protection	yes
Feedback voltage	\leq DC 35 V
Parallel operation	Yes
Series connection	No
MTBF	typ. 87,600 h (at 25 °C); typ. 30,500 h (at 40 °C)

Connection data

Connection type (1)	Input/Output/Relay
Connection technology	CAGE CLAMP®
WAGO terminal	WAGO 231 Series
Solid conductor	0.08 ... 2.5 mm ² / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 2.5 mm ² / 28 ... 12 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inch

Geometrical Data

Width	57 mm / 2.244 inch
Height	163 mm / 6.417 inch

Length from upper-edge of DIN-35 rail	179 mm / 7.047 inch
Note on dimensions	Height including pluggable connector

Mechanical data

Type of mounting	DIN-35 rail (EN 60715) in 2 positions
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Material Data

Weight	1000 g
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Environmental Requirements

Surrounding air (operating) temperature	-10 ... 50 °C
Surrounding air (storage) temperature	-10 ... 60 °C
Relative humidity	5 ... 96 % (no condensation permissible)
Pollution degree	2

Standards and specifications


Conformity marking	1
Standards/specifications	EN 60950; UL 508; EN 61000-6-2; EN 61000-6-3

Commercial data

Product Group	6 (Interface Electronics)
Country of origin	DE
GTIN	4045454909833
Customs Tariff No.	85049018990



















Approvals / Certificates








UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc.	UL 508	E255817

Compatible products

Marking accessories

	Item no.: 2009-110 Marking strips; on reel; not stretchable; plain; snap-on type	2009-110
	Item no.: 210-831 Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive	210-831
	Item no.: 210-832 Marking strips; on reel; 3 mm wide; plain; Self-adhesive	210-832
Mounting adapter		
	Item no.: 787-895 EPSITRON® wall mount adapter; for screw fixing of 787-8xx devices on mounting plate or wall without DIN 35 rail	787-895
	Item no.: 787-896 Carrier rail adapter; for mounting 787-8xx devices to a DIN 35 rail	787-896
	Item no.: 787-897 Carrier rail adapter made of zinc die-cast; for mounting 787-8xx devices to a DIN 35 rail	787-897
tools		
	Item no.: 210-720 Operating tool with partially insulated shaft; Type 2, blade (3.5 x 0.5) mm	210-720
ferrule		
	Item no.: 216-201 Ferrule; Sleeve for 0.5 mm ² / 20 AWG; insulated; electro-tin plated	216-201
	Item no.: 216-202 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated	216-202
	Item no.: 216-203 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated	216-203
	Item no.: 216-204 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated	216-204
	Item no.: 216-221 Ferrule; Sleeve for 0.5 mm ² / 20 AWG; insulated; electro-tin plated	216-221
	Item no.: 216-222 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated	216-222
	Item no.: 216-223 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated	216-223
	Item no.: 216-224 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated	216-224
	Item no.: 216-241 Ferrule; Sleeve for 0.5 mm ² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	216-241
	Item no.: 216-242 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	216-242
	Item no.: 216-243 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	216-243

	Item no.: 216-244 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	216-244
	Item no.: 216-262 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	216-262
	Item no.: 216-263 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	216-263
	Item no.: 216-264 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	216-264
	Item no.: 216-284 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	216-284
	Item no.: 216-301 Ferrule; Sleeve for 0.25 mm ² / AWG 24; insulated; electro-tin plated	216-301
	Item no.: 216-302 Ferrule; Sleeve for 0.34 mm ² / 22 AWG; insulated; electro-tin plated	216-302
	Item no.: 216-321 Ferrule; Sleeve for 0.25 mm ² / AWG 24; insulated; electro-tin plated	216-321
	Item no.: 216-322 Ferrule; Sleeve for 0.34 mm ² / 22 AWG; insulated; electro-tin plated	216-322

Downloads

Documentation

Bid Text

787-880	Apr 4, 2012	doc	Download
Stromversorgung EPSITRON		35.3 kB	

Instruction Leaflet

EPSITRON Capacitive Buffer Modules		pdf	Download
24 VDC, 10 A		886.7 kB	

Additional Information

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf	Download
		265.8 kB	

CAD/CAE - Smart Data

CAD data

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Subject to changes.
