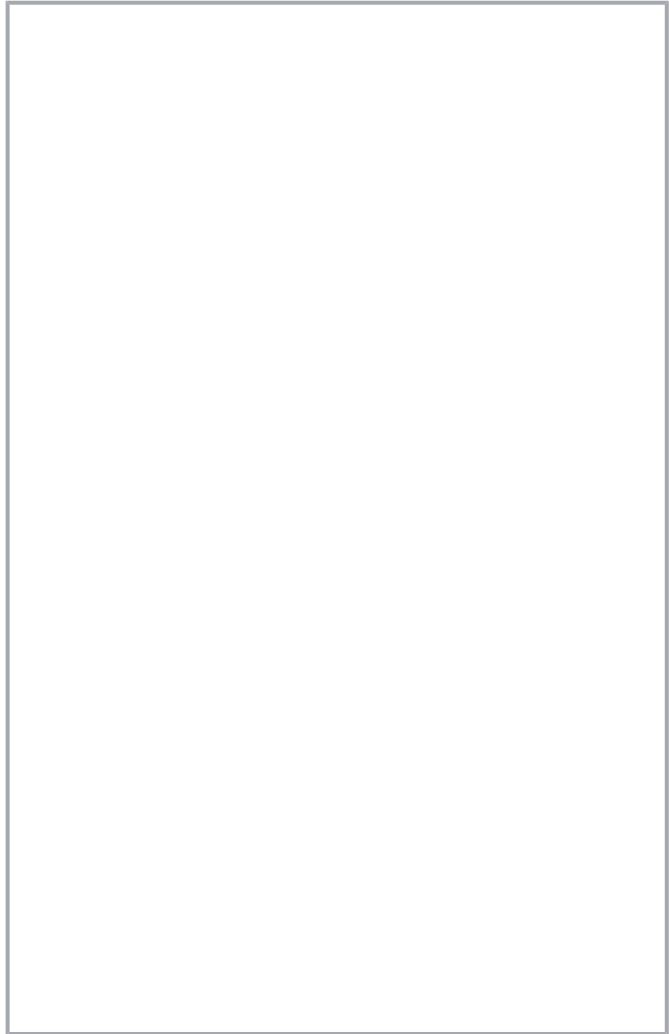
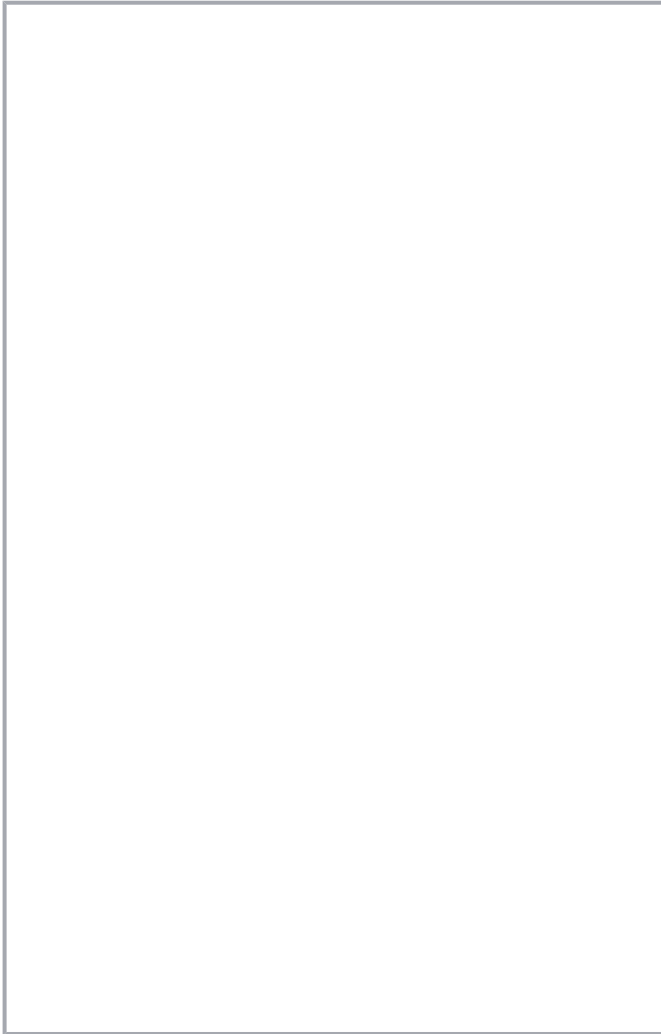


Data sheet | Item number: 787-602

Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 1.3 A output current

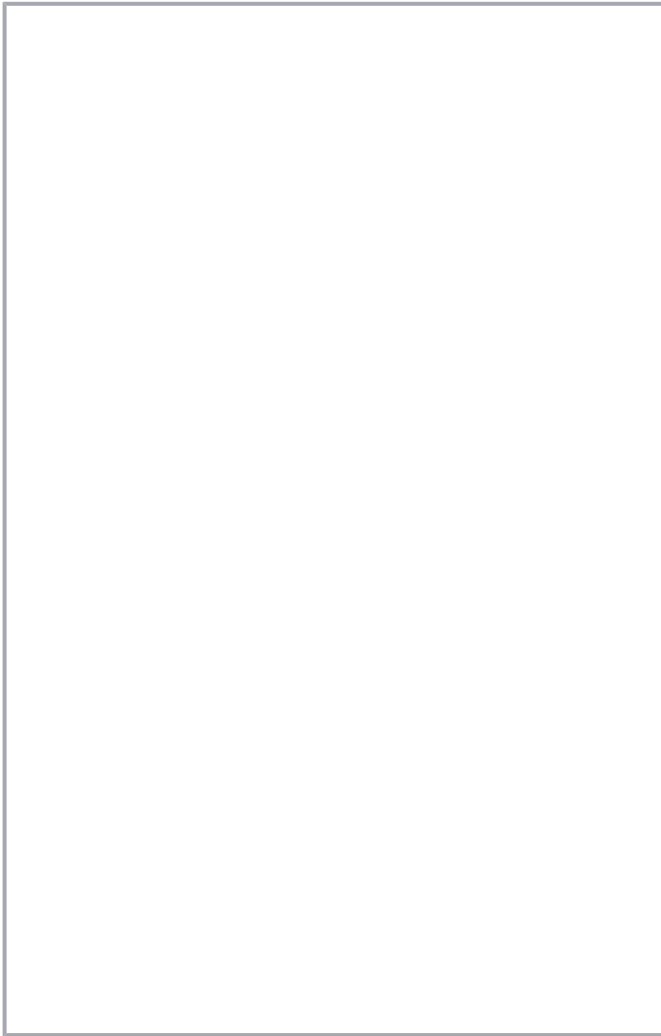
www.wago.com/787-602



Subject to changes. Please also observe the further product documentation!

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Item description

- Switched-mode power supply
- Protection class I
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950

Data

Technical data

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Input

Phases	1
Nominal input voltage $U_{i\text{ nom}}$	1 x AC 100 ... 240 V; DC 140 ... 300 V
Input voltage range	1 x AC 90 ... 264 V; DC 130 ... 300 V
Nominal mains frequency range	50 ... 60 Hz; 0 Hz
Input current I_i	$\leq 0.3\text{ A}$ (230 VAC)
Discharge current	$\leq 0.9\text{ mA}$
Inrush current	$\leq 25\text{ A}$
Power factor correction (PFC)	Passive
Mains failure hold-up time	$\geq 20\text{ ms}$ (230 VAC)

Output

Nominal output voltage $U_{o\text{ nom}}$	DC 24 V (SELV)
Output voltage range	DC 22 ... 28.8 V (adjustable)
Default setting	DC 24 V
Nominal output current $I_{o\text{ nom}}$	1.3 A (24 VDC)
Deviation	$\leq 3\%$
Residual ripple	$\leq 100\text{ mV}$ (peak-to-peak)
Current limitation	$1.5 \times I_{o\text{ nom}}$ (typ.)
Overload behavior	Hiccup

Signaling and communication

Operation status indicator	Green LED (24 V OK)
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Efficiency/power losses

Power loss P_i	$\leq 4.9\text{ W}$
Power loss (max.) $P_{i\text{ (max.)}}$	7 W (90 VAC / 24 VDC; 1.3 A)
Efficiency (typ.)	83 %

Circuit protection

Internal fuse	T 2 A / 250 VAC
Required backup fusing	An external DC fuse is required for the DC input voltage.
Recommended backup fusing	Circuit breaker: C10 or B10

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Safety and protection

Isolation voltage (pri.-sec.)	DC 4.242 kV
Isolation voltage (pri.-PE)	DC 2.2 kV
Isolation voltage (sec.-PE)	DC 0.7 kV
Protection class	I
Protection type	IP20
Note on protection type	Per EN 60529
Resistance to reverse feed	≤ DC 30 V
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	Internal protective circuit ≤ 40 VDC (in the event of a fault)
Short-circuit-protected	Yes ("hiccup")
Open-circuit-proof	Yes
Parallel operation	No
Series operation	Yes

Connection data

Connection type 1	Input/Output
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
Note (conductor cross-section)	12 AWG: THHN, THWN

Physical data

Width	40 mm / 1.575 inches
Height from upper-edge of DIN-rail	95 mm / 3.74 inches
Depth from upper-edge of DIN-rail	90 mm / 3.543 inches

Mechanical data

Mounting type	DIN-35 rail
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Material data

Weight	300 g
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Environmental requirements

Ambient temperature (operation)	-10 ... +70 °C
Surrounding air temperature (storage)	-25 ... +85 °C
Relative humidity	30 ... 85 % (no condensation permissible)
Derating	-3 %/K (> 50 °C)

Standards and specifications

Conformity marking	CE
Standards/specifications	EN 60950-1 EN 61204-3 UL 60950 UL 508 GL

Commercial data

Product Group	6 (Interface Electronics)
eCl@ss 10.0	27-04-07-01
eCl@ss 9.0	27-04-07-01
ETIM 8.0	EC002540
ETIM 7.0	EC002540
PU (SPU)	1 Stück
Packaging type	box
Country of origin VKOrg Germany	DE
GTIN	4045454435134
Customs tariff number VKOrg Germany	85044082900

Approvals / Certificates

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	EAC Brjansker Zertifizierungsstelle	TP TC 004/2011, TP TC 020/2011	EAC RU C-DE.AM02.B. 00089_19

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Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAA00002J6

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc.	UL 60950-1	E255815
	UL Underwriters Laboratories Inc.	UL 508	E255817

Downloads

Documentation

Bid Text

787-602 docx - Datei	2019 Jun 13	docx 20.3 kB	Download
787-602 X81 - Datei	2019 Jun 13	xml 6.9 kB	Download

Instruction Leaflet

Primär getaktete Stromversorgungen CLASSIC DC 24 V, 1,3 A		pdf 182.1 kB	Download
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Additional Information

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 265.8 kB	Download
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CAD/CAE-Data

CAD data

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2D/3D Models 787-602	URL	Download
CAE data		
EPLAN Data Portal 787-602	URL	Download
WSCAD Universe 787-602	URL	Download
ZUKEN Portal 787-602	URL	Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-602	URL	Download
Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 1.3 A output current		

Installation Notes

Product family

Classic

EPSITRON® CLASSIC POWER: The Robust Power Supply – with Integrated TopBoost (Optional)

[Show all products from the family](#)

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