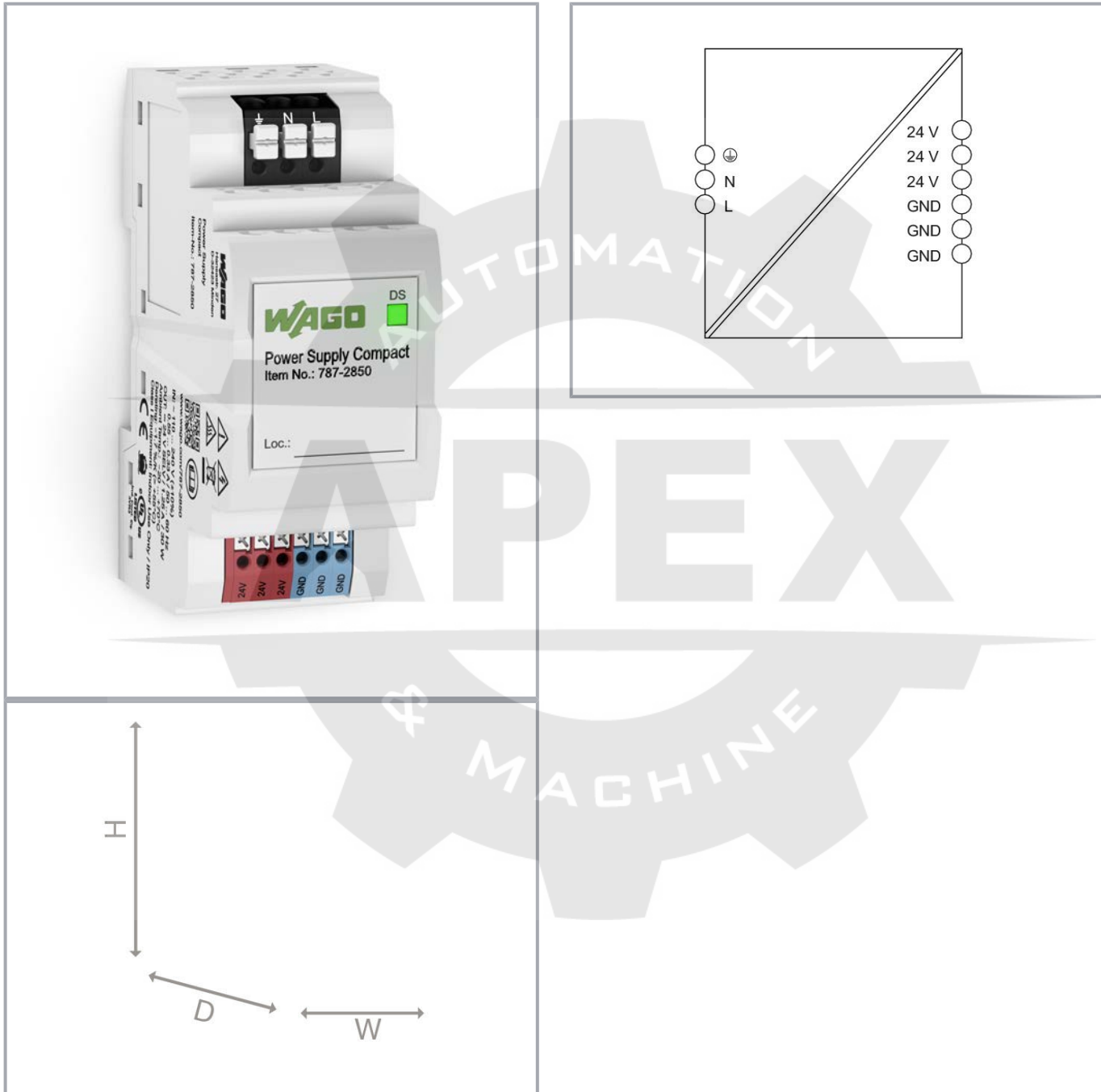


Data sheet | Item number: 787-2850

Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage;
1.25 A output current

www.wago.com/787-2850



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

WAGO Corporation
Germantown, WI 53022
Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222
Email: info.us@wago.com | Web: www.wago.us

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Item description

Features:

- Stepped profile for installation in standard distribution boards
- Connection technology with Push-in CAGE CLAMP®
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN/UL 61010-1 or EU/UL 61010-2-201

Data

Technical data

Input

Phases	1
Nominal input voltage [V]	AC 110 ... 240 V
Input voltage range	AC 100 ... 264 V
Nominal mains frequency range	47 ... 63 Hz
Input current I_i	≤ 0.55 A (110 VAC); ≤ 0.33 A (240 VAC)
Inrush current	≤ 24 A (NTC)
Mains failure hold-up time	≥ 95 ms (230 VAC)

Output

Nominal output voltage [V]	DC 24 V (SELV)
Output voltage range	DC 24 ... 24 V (fixed setting)
Nominal output current $I_{o \text{ nom}}$	1.25 A (24 VDC)
Nominal output power	30 W
Control deviation	≤ 2 %
Residual ripple	≤ 60 mV (peak-to-peak)
Overload behavior	Hiccup

Signaling and communication

Signaling	1 x Status indication LED (green)
Operation status indicator	Green LED (U_o)

Efficiency/power losses

Power loss P_i	≤ 0.5 W (230 VAC; No load); ≤ 4 W (230 VAC; Nominal load)
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Power loss (max.) $P_{I(max)}$	5 W (110 VAC / 24 VDC; 1.35 A)
Efficiency (typ.)	88 %

Circuit protection

Internal fuse	T 1.25 A / 250 VAC
Recommended backup fusing	16 A (for USA/Canada: 15 A)

Safety and protection

Isolation voltage (pri.-sec., AC)	2,470 V
Isolation voltage (pri.-GND, AC)	3,920 V
Isolation voltage (Sec.-GND)	DC 0.5 kV
Protection class	I
Protection type	IP20 (per EN 60529)
Resistance to reverse feed	\leq DC 32 V
Overvoltage category	III
Pollution degree	2
Overvoltage protection; secondary	\leq 32 VDC (in the event of a fault)
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	Yes
Series operation	Yes
MTBF	> 2,500,000 h (per EN/IEC 61709 at +40 °C)

Connection data

Connection type (1)	Input
Connection technology	Push-in CAGE CLAMP®
WAGO Connector	WAGO 804 Series
Solid conductor	0.25 ... 2.5 mm² / 20 ... 12 AWG
Fine-stranded conductor	0.25 ... 2.5 mm² / 22 ... 12 AWG
Strip length	10 ... 11 mm / 0.39 ... 0.43 inch
Connection type 2	Output
Connection technology 2	Push-in CAGE CLAMP®
WAGO Connector 2	WAGO 805 Series
Solid conductor 2	0.2 ... 1.5 mm² / 24 ... 16 AWG
Fine-stranded conductor 2	0.2 ... 1.5 mm² / 24 ... 16 AWG
Strip length 2	9 ... 10 mm / 0.35 ... 0.39 inch

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Physical data

Width	36 mm / 1.417 inch
Height	90 mm / 3.543 inch
Depth	62 mm / 2.441 inch
Depth from upper edge of DIN-rail	55 mm / 2.165 inch

Mechanical data

Mounting type	DIN-35 rail
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Material data

Flammability class per UL94	V0
Fire load	0.045 MJ
Weight	120 g

Environmental requirements

Surrounding air temperature (operation)	-20 ... 70 °C (Nominal mounting position; -20 ... +55 °C (in any mounting position))
Surrounding air temperature (storage)	-40 ... 85 °C
Relative humidity	5 ... 96 % (no condensation permissible)
Derating	-1.7 %/K (> 55 °C)
Climatic category	3K3 (per EN 60721)

Standards and specifications

Conformity marking	CE
Standards/Specifications	EN 61204-3 EN 61010-1 EN 61010-2-201 cULus 61010-1 cULus 61010-2-201 DNV GL

Commercial data

Packaging type	BOX
Country of origin	DE
GTIN	4055143810906
Customs tariff number	8504409510


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Approvals / Certificates


Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	EAC ROSTEST-Moskau	TP TC 004/2011, TP TC 020/2011	RU_C-DE. AJA46.B. 04525_19

Ship Approvals


Logo	Approval	Additional Approval Text	Certificate name
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAA00001ZJ

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc.	UL 61010-2-201	E255817

Optional accessories

Tools

	Item no.: 210-720 Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured	www.wago.com/210-720
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Downloads

Documentation

Bid Text

787-2850 X81 - Datei	Jul 4, 2019	xml 7.1 kB	Download
787-2850 docx - Datei	Jul 4, 2019	docx 20.8 kB	Download

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Instruction Leaflet

Power Supply Compact
DC 24 V, 1,25 A, SELV

pdf
1.8 MB

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Additional Information

Disposal; Electrical and electronic equipment, Packaging

V 1.0.0

pdf
265.8 kB

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CAD files

CAE data

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Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 1.25 A output current

Installation Notes

Product family

EPSITRON COMPACT Power

EPSITRON® COMPACT POWER: Compact, High-Performance Power Supplies

[Show all products from the family](#)

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