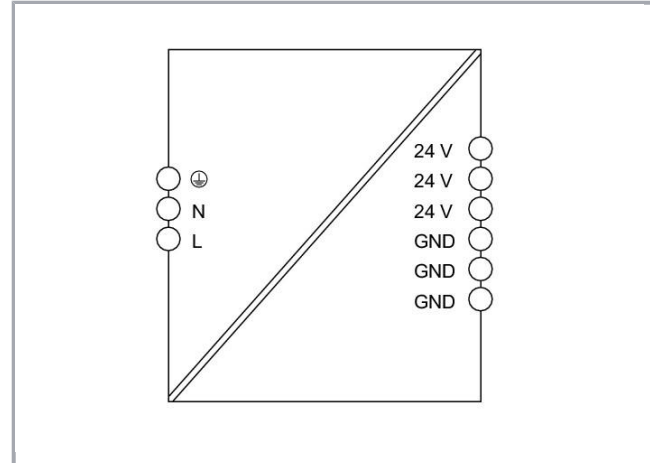


Data sheet | Item number: 787-2850

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

[www.wago.com/787-2850](http://www.wago.com/787-2850)



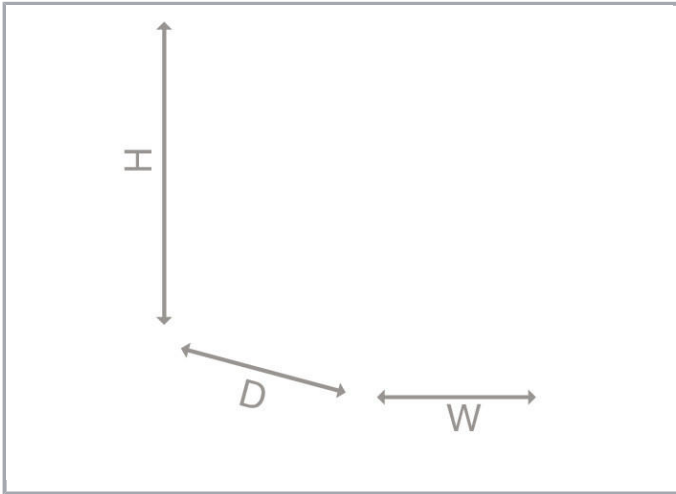
RoHS  Compliant

BOMcheck.net

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

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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 $U_{i\text{nom}}$	AC 110 ... 240 V
Input voltage range	AC 100 ... 264 V
Nominal mains frequency range	47 ... 63 Hz
Input current $I_i$	$\leq 0,55$ A (110 VAC); $\leq 0,33$ A (240 VAC)
Inrush current	$\leq 24$ A (NTC)
Mains failure hold-up time	$\geq 95$ ms (230 VAC)

#### Output

Nominal output voltage $U_{o\text{nom}}$	DC 24 V (SELV)
Nominal output current $I_{o\text{nom}}$	1,25 A (24 VDC)
Nominal output power	30 W

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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 <sub>o</sub> )

### Efficiency/Power losses:

Power loss P <sub>l</sub>	≤ 0,5 W (230 VAC; No load); ≤ 4 W (230 VAC; Nominal load)
Power loss (max.) P <sub>l(max.)</sub>	5 W (110 VAC / 24 VDC; 1.35 A)
Efficiency (typ.)	88 %

### Fuse protection:

Internal fuse	T 1.25 A / 250 VAC
Recommended backup fusing	Circuit breaker: 16 A; Tripping characteristic: B or C

### Safety and protection:

Isolation voltage (Pri.-Sec.)	DC 3,5 kV
Isolation voltage (Pri.-GND)	DC 1,4 kV
Isolation voltage (Sec.-GND)	DC 0,5 kV
Protection class	I
Protection type	IP20 (per EN 60529)
Resistance to reverse feed	≤ DC 32 V
Overvoltage category	III
Overvoltage protection; secondary	≤ 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®

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WAGO Connector	WAGO 804 Series
Solid conductor	0,25 ... 2,5 mm <sup>2</sup> / 20 ... 12 AWG
Fine-stranded conductor	0,25 ... 2,5 mm <sup>2</sup> / 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 mm <sup>2</sup> / 24 ... 16 AWG
Fine-stranded conductor 2	0,2 ... 1,5 mm <sup>2</sup> / 24 ... 16 AWG
Strip length 2	9 ... 10 mm / 0.35 ... 0.39 inch

### Geometrical 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 (EN 60715)
---------------	------------------------

### Material Data

Flammability class per UL94	V0
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)
Pollution degree	2
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

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61010-2-201; DNV GL

## Commercial data


Packaging type	BOX
Country of origin	DE
GTIN	4055143810906
Customs tariff number	85044082900

## 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

## Counterpart

## Compatible products

### tools



Item no.: 210-720

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft

[www.wago.com/210-720](http://www.wago.com/210-720)

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## Downloads Documentation

### Bid Text

787-2850 GAEB docx - Datei	Jul 4, 2019	docx 20.8 kB	Download
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787-2850 GAEB X81 - Datei	Jul 4, 2019	xml 7.1 kB	Download
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### Instruction Leaflet

Power Supply Compact DC 24 V, 1,25 A, SELV		pdf 1.8 MB	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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## Handling Instructions

## Product family

### Compact

[Show all products from the family](#)

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