

Data sheet | Item number: 787-738

Switched-mode power supply; Eco; 3-phase; 24 VDC output voltage; 6.25 A output current; DC OK contact

www.wago.com/787-738



Item description

Features:

- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Fast and tool-free termination via lever-actuated PCB terminal blocks
- Bounce-free switching signal (DC OK) via optocoupler

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

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- Parallel operation
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

Data

Technical data

Input

Phases	2 / 3
Nominal input voltage $U_{i\text{nom}}$	(2 / 3) x AC 400 ... 500 V
Input voltage range	(2 / 3) x AC 360 ... 575 V; DC 500 ... 650 V
Nominal mains frequency range	47 ... 63 Hz; 0 Hz
Input current I_i	$\leq 3 \times 0.6 \text{ A}$ (400 VAC; 24 VDC / 6.25 A)
Inrush current	$\leq 25 \text{ A}$
Power factor	≥ 0.5
Power factor correction (PFC)	Passive
Mains failure hold-up time	$\geq 17 \text{ ms}$ (3 x 400 VAC)

Output

Nominal output voltage $U_{o\text{nom}}$	DC 24 V (SELV)
Output voltage range	DC 22 ... 28 V (adjustable)
Default setting	DC 24 V
Nominal output current $I_{o\text{nom}}$	6.25 A (24 VDC)
Nominal output power	150 W
Deviation	$\leq 1 \%$
Residual ripple	$\leq 100 \text{ mV}$ (peak-to-peak)
Overload behavior	Constant power (in overload range: $1.15 \dots 1.4 \times I_{o\text{nom}}$); Shutdown and automatic restart in the event of a short circuit

Signaling and Communication

Signaling	1 x LED DC OK (green) 1 x Overload LED (red)
Operation status indicator	Green LED (U_o) Red LED (overload)

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



Efficiency/power losses

Power loss P_I	$\leq 18.5 \text{ W}$
Power loss (max.) $P_{I(\text{max.})}$	20 W
Efficiency (typ.)	87 %

Circuit protection

Internal fuse	3 x T 2 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	3 x circuit breaker $\geq 6 \text{ A}$; Tripping characteristic: B or C Alternative: motor circuit breaker

Safety and protection

Isolation voltage (sec.-PE)	DC 0.7 kV
Protection class	I
Protection type	IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	Yes
Series operation	Yes
MTBF	> 250,000 h (per IEC 61709)

Connection data

Connection type 1	Input/Output
Connection technology	CAGE CLAMP®
WAGO connector	WAGO 2706 Series
Solid conductor	0.5 ... 6 mm ² / 20 ... 10 AWG
Fine-stranded conductor	0.5 ... 6 mm ² / 20 ... 10 AWG
Strip length	11 ... 12 mm / 0.43 ... 0.47 inches
Connection type 2	Signaling
Connection technology 2	Push-in CAGE CLAMP®
WAGO connector 2	<i>picoMAX</i> ® 3.5 (WAGO 2091 Series)

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Solid conductor 2	0.2 ... 1.5 mm ² / 24 ... 14 AWG
Fine-stranded conductor 2	0.2 ... 1.5 mm ² / 24 ... 14 AWG
Strip length 2	8 ... 9 mm / 0.31 ... 0.35 inches

Physical data

Width	50 mm / 1.969 inches
Height	130 mm / 5.118 inches
Depth from upper-edge of DIN-rail	92 mm / 3.622 inches

Mechanical Data

Mounting type	DIN-35 rail
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Material Data

Weight	844 g
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Environmental requirements

Ambient temperature (operation)	-25 ... +70 °C
Ambient temperature (storage)	-40 ... +85 °C
Relative humidity	10 ... 95 % (no condensation permissible)
Derating	-2.5 %/K (> 50 °C; 400 VAC)
Climatic category	3K3 (per EN 60721)

Standards and specifications

Conformity marking	CE
Standards/specifications	EN 62368-1 EN 61204-3 (Class A) UL 60950-1 UL 508 SEMI F47

Commercial data

eCl@ss 10.0	27-04-07-01
eCl@ss 9.0	27-04-07-01
ETIM 8.0	EC002540
ETIM 7.0	EC002540
Recupel Type	
PU (SPU)	1 pcs

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



Packaging type	box
Country of origin	CN
GTIN	4050821847861
Customs tariff number	85044083900

Environmental Product Compliance

RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c) 7(a) 7(c)-I 7(c)-II
SCIP notification number (Bulgaria)	6ad76c2f-5e1d-4e81-863e-4937bfb36fc5
SCIP notification number (Czech Republic)	3cb75b15-0728-4ff4-a13e-55912c975eb3

Approvals / Certificates

General 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
	UL Underwriters Laboratories Inc.	UL 60950-1	E255815
	UL Underwriters Laboratories Inc.	UL 508	E255817

Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
	MFD with product reference WAGO GmbH & Co. KG	-	-

Optional accessories

Tool

Operating tool	Item no.: 210-719 Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft	www.wago.com/210-719
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Item no.: 210-769
SCREWDRIVER; green

www.wago.com/210-769**Downloads****Documentation****Bid Text**

787-738 docx - Datei	2019 年7月12 日	docx 23.7 kB	Download
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787-738 X81 - Datei	2019 年7月12 日	xml 7.4 kB	Download
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Instruction Leaflet

Primary Switch Mode Power Supply ECO-Power DC 24 V, 6,25 A	V 1.3.5 2020 年12月21 日	pdf 287.4 kB	Download
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Additional Information

Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging	V 1.1.0 2022 年8月18 日	pdf 2.2 MB	Download
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CAD/CAE-Data**CAD data**

2D/3D Models 787-738		URL	Download
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CAE data

EPLAN Data Portal 787-738		URL	Download
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WSCAD Universe 787-738		URL	Download
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ZUKEN Portal 787-738		URL	Download
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Environmental Product Compliance**Compliance Search**

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Installation Notes

Product family

EPSITRON ECO Power

[Show all products from the family](#)

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