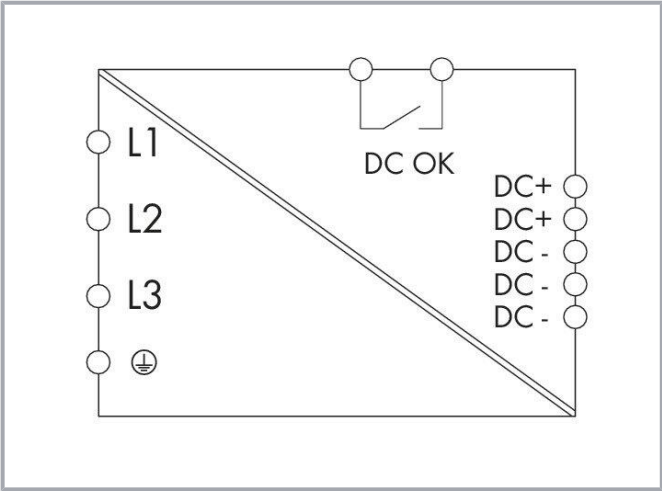


Data sheet | Item number: 787-2744

Power supply; Eco; 3-phase; 24 VDC output voltage; 40 A output current; DC OK contact



www.wago.com/787-2744



Item description

Features:

- Economical power supply for standard applications
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Fast and tool-free termination via lever-actuated terminals with push-in connection technology
- DC OK signal output
- Parallel operation
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1; PELV per EN 60204-1

Data

Technical data

Input

Phases	2 / 3
Nominal input voltage $U_{i\text{ nom}}$	(2 / 3) x AC 400 ... 480 V
Input voltage range	(2 / 3) x AC 325 ... 575 V; DC 560 ... 700 V
Nominal mains frequency range	47 ... 63 Hz; 0 Hz

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

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Input current I_i	$\leq 3 \times 2.5 \text{ A (400 VAC)}$
Inrush current	$\leq 30 \text{ A (400 VAC)}$
Power factor	$\geq 0.7 \text{ (400 VAC)}$
Power factor correction (PFC)	Passive
Mains failure hold-up time	$\geq 10 \text{ ms (3 x 400 VAC)}$

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 $I_{o \text{ nom}}$	40 A (24 VDC)
Nominal output power	960 W
Deviation	$\leq 1 \%$
Residual ripple	$\leq 150 \text{ mV (peak-to-peak)}$
Overload behavior	Constant power (in overload range: $1.05 \dots 1.4 \times I_{o \text{ nom}}$); 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)

Efficiency/power losses

Power loss P_i	$\leq 6.2 \text{ W (400 VAC; Nominal load)}; \leq 64.3 \text{ W (400 VAC; Nominal load)}$
Efficiency (typ.)	92.3 %

Circuit protection

Internal fuse	3 x T 6.3 A / 500 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	3 x circuit breaker $\geq 10 \text{ A}$; Tripping characteristic: B or C

Safety and protection

Isolation voltage (sec.-PE)	DC 0.7 kV
Protection class	I

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



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	2 devices (max.)
MTBF	> 1,300,000 h (per IEC 61709)

Connection data

Connection type 1	Input
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 2606 Series
Solid conductor	0.5 ... 6 mm² / 20 ... 10 AWG
Fine-stranded conductor	0.5 ... 6 mm² / 20 ... 10 AWG
Strip length	11 ... 13 mm / 0.43 ... 0.51 inches
Connection type 2	Output
Connection technology 2	Push-in CAGE CLAMP®
WAGO connector 2	WAGO 2616 Series
Solid conductor 2	0.75 ... 16 mm² / 18 ... 4 AWG
Fine-stranded conductor 2	0.75 ... 25 mm² / 18 ... 4 AWG
Strip length 2	18 ... 20 mm / 0.71 ... 0.79 inches
Connection type 3	Signaling
Connection technology 3	Push-in CAGE CLAMP®
WAGO connector 3	<i>picoMAX</i> ® 3.5 (WAGO 2091 Series)
Solid conductor 3	0.2 ... 1.5 mm² / 24 ... 14 AWG
Fine-stranded conductor 3	0.2 ... 1.5 mm² / 24 ... 14 AWG
Strip length 3	8 ... 9 mm / 0.31 ... 0.35 inches

Physical data

Width	140 mm / 5.512 inches
Height	130 mm / 5.118 inches
Depth from upper-edge of DIN-rail	170 mm / 6.693 inches

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Mechanical Data

Mounting type	DIN-35 rail
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Material data

Fire load	0.593 MJ
Weight	2630 g

Environmental requirements

Ambient temperature (operation)	-20 ... +70 °C
Ambient temperature (storage)	-40 ... +85 °C
Relative humidity	10 ... 95 % (no condensation permissible)
Derating	-2 %/K (> 45 °C)
Climatic category	3K3 (per EN 60721)
Resistance to shock and vibration	Shock: 15g (per EN 60068-2-27) Vibration: 1g (per EN 60068-2-6)

Standards and specifications

Conformity marking	CE; EAC
Standards/specifications	EN 61204-3 EN 62368-1 cURus 60950-1 cURus 62368-1 cULus 508 CSA C22.2 SEMI F47

Commercial data

ETIM 8.0	EC002540
ETIM 7.0	EC002540
Recupel Type	
PU (SPU)	1 pcs
Packaging type	box
Country of origin	CN
GTIN	4055143588980
Customs tariff number	85044083900

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

Environmental Product Compliance

RoHS Compliance Status

Compliant, No Exemption

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	EAC ROSTEST-Moskau	TP TC 004/2011, TP TC 020/2011	RU_C-DE. AJA46.B. 07009_19 0787_2744
	UL Underwriters Laboratories Inc.	UL 60950-1	E255815
	UL Underwriters Laboratories Inc.	UL 508	E255817
	UR Underwriters Laboratories Inc.	UL 62368-1	E255815

Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
	MFD for SEMI F47 WAGO GmbH & Co. KG	-	-

Optional accessories

Tool

Operating tool

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



Item no.: 210-719

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

www.wago.com/210-719

Item no.: 210-769

SCREWDRIVER; green

www.wago.com/210-769

Downloads

Documentation

Bid Text

787-2744	2019 Jun 13	xml	Download
X81 - Datei		7.6 kB	

787-2744	2019 Jun 13	docx	Download
docx - Datei		23.8 kB	

Instruction Leaflet

Primär getaktete Stromversorgung ECO	V 1.5.0	pdf	Download
		1.0 MB	

Additional Information

Disposal and Recycling	V 1.1.0	pdf	Download
Electrical and electronic equipment, Batteries, Packaging	2022 Aug 18	2.2 MB	

CAD/CAE-Data

CAE data

ZUKEN Portal 787-2744	URL	Download
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EPLAN Data Portal 787-2744	URL	Download
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CAD data

2D/3D Models 787-2744	URL	Download
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Asset Administration Shell

Asset Administration Shell 787-2744	URL	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-2744	URL	Download
Power supply; Eco; 3-phase; 24 VDC output voltage; 40 A output current; DC OK contact		

Installation Notes

Product family

EPSITRON ECO Power
[Show all products from the family](#)

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