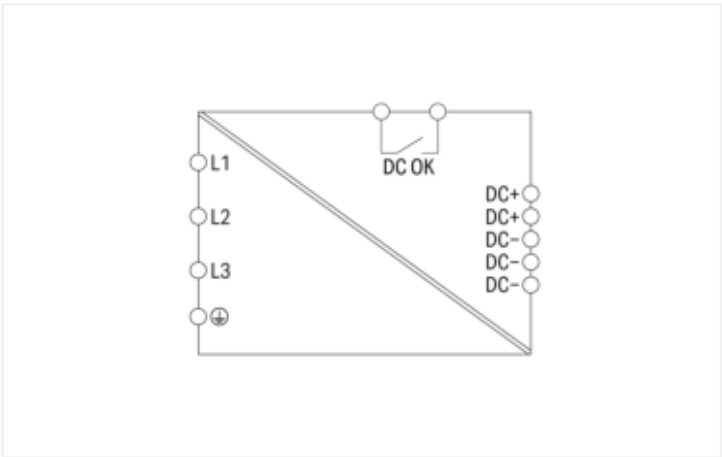


Data Sheet | Item Number: 787-2744

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

<https://www.wago.com/787-2744>



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

Technical data

Input		Output	
Phases	2 / 3	Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Nominal input voltage $U_{i\,nom}$	(2 / 3) x 400 ... 480 VAC	Output voltage range	22 ... 28 VDC (adjustable)
Input voltage range	(2 / 3) x 325 ... 575 VAC; 560 ... 700 VDC	Default Setting	24 VDC
Nominal mains frequency range	47 ... 63 Hz; 0 Hz	Nominal output current $I_{o\,nom}$	40 A (24 VDC)
Input current I_i	$\leq 3 \times 2.5 \text{ A}$ (400 VAC)	Nominal output power	960 W
Discharge current	$\leq 3.5 \text{ mA}$	Deviation	$\leq 1 \%$
Inrush current	$\leq 30 \text{ A}$ (400 VAC)	Residual ripple	$\leq 150 \text{ mV}$ (peak-to-peak)
Power factor	≥ 0.7 (400 VAC)	Overload behavior	Constant power (in overload range: 1.05 ... 1.4 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit
Power factor correction (PFC)	Passive		
Mains failure hold-up time	$\geq 10 \text{ ms}$ (3 x 400 VAC)		

Signaling and Communication

Signaling	1 x DC OK LED (green) 1 x Overload LED (red) 1 x Signal output DC OK (PhotoMOS as make contact, rated for max. 31.2 VDC / 100 mA)
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Operation status indicator	Green LED (U_o) Red LED (overload)
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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 %

Isolation voltage (pri.-sec.)	4.242 kVDC
Isolation voltage (pri.-PE)	2.2 kVDC
Isolation voltage (sec.-PE)	0.7 kVDC
Isolation voltage (sec.-signal)	0.7 kVDC
Protection class	I
Protection type	IP20; per EN 60529
Resistance to reverse feed	≤ 30 VDC
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 1	
Connection type	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 2	
Connection type	Output
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 2616 Series
Solid conductor	0.75 ... 16 mm² / 18 ... 4 AWG
Fine-stranded conductor	0.75 ... 25 mm² / 18 ... 4 AWG
Strip length	18 ... 20 mm / 0.71 ... 0.79 inches

Connection type	Signaling
Connection technology	Push-in CAGE CLAMP®
WAGO connector	<i>pico</i> MAX® 3.5 (WAGO 2091 Series)
Solid conductor	0.2 ... 1.5 mm ² / 24 ... 14 AWG
Fine-stranded conductor	0.2 ... 1.5 mm ² / 24 ... 14 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches

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



Mechanical data		
Mounting type		DIN-35 rail
Material data		
Fire load		0.817 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		
PU (SPU)		1 pcs
Packaging type		Box
Country of origin		CN
GTIN		4055143588980
Customs tariff number		85044083900
Product Classification		
UNSPSC		39121004
ETIM 9.0		EC002540
ETIM 10.0		EC002540
ECCN		NO US CLASSIFICATION
Environmental Product Compliance		
RoHS Compliance Status		Compliant, No Exemption

Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 004/2011	EAC CoC 03078
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03081
UL Underwriters Laboratories Inc.	UL 508	E255817
UR Underwriters Laboratories Inc.	UL 60950-1	E255815
UR Underwriters Laboratories Inc.	UL 62368-1	E255815

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
MFD for SEMI F47 WAGO GmbH & Co. KG	-	-

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-2744

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Documentation

Bid Text

787-2744	13.06.2019	xml 7.45 KB	↓
787-2744	13.06.2019	docx 23.25 KB	↓

Instruction Leaflet

Primär getaktete Stromversorgung ECO	V 1.5.0	pdf 980.89 KB	↓
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CAD/CAE-Data

CAD data

2D/3D Models 787-2744

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CAE data

EPLAN Data Portal 787-2744

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ZUKEN Portal 787-2744

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1 Compatible Products
1.1 Optional Accessories
1.1.1 Tool
1.1.1.1 Operating tool



Item No.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Item No.: 210-769
SCREWDRIVER; green