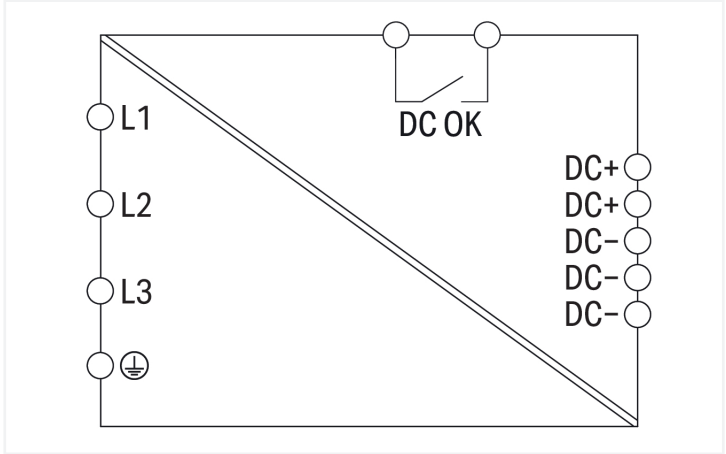


Data Sheet | Item Number: 787-2742

Power supply; Eco; 3-phase; 24 VDC output voltage; 20 A output current; DC OK contact

<https://www.wago.com/787-2742>



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 terminal blocks 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	DC 24 V
Nominal mains frequency range	47 ... 63 Hz; 0 Hz	Nominal output current $I_{o\ nom}$	20 A (24 VDC)
Input current I_i	$\leq 3 \times 1.2\ A$ (400 VAC)	Nominal output power	480 W
Discharge current	$\leq 3.5\ mA$	Deviation	$\leq 1\ \%$
Inrush current	$\leq 30\ A$ (400 VAC)	Residual ripple	$\leq 150\ mV$ (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	$\geq 10\ ms$ (3 x 400 VAC)		

Signaling and communication	
Signaling	1 x LED DC OK (green) 1 x Overload LED (red) 1 x DC OK signal output (PhotoMOS as make contact; can be loaded with max. 31.2 V / 100 mA)

Operation status indicator	Green LED (U_o) Red LED (overload)
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Efficiency/power losses	
Power loss P_i	$\leq 2.15\ W$ (400 VAC; no load); $\leq 42.5\ W$ (400 VAC; nominal load)
Efficiency (typ.)	92 %

Circuit protection	
Internal fuse	3 x T 3.15 A / 500 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	3 x Circuit breaker $\geq 10\ A$; Tripping characteristic: B or C



Safety and protection		
Isolation voltage (pri.-sec.)		DC 4.242 kV
Isolation voltage (pri.-PE)		DC 2.2 kV
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		> 1,800,000 h (per IEC 61709)

Connection data		
Connection type 1		Input/output
Connection technology		Push-in CAGE CLAMP® Push-in CAGE CLAMP®
WAGO connector		WAGO 2606 Series
Solid conductor		0.5 ... 6 mm² / 20 ... 10 AWG 0.2 ... 1.5 mm² / 24 ... 14 AWG
Fine-stranded conductor		0.5 ... 6 mm² / 20 ... 10 AWG 0.2 ... 1.5 mm² / 24 ... 14 AWG
Strip length		11 ... 13 mm / 0.43 ... 0.51 inches 8 ... 9 mm / 0.31 ... 0.35 inches
Connection type		Signaling
WAGO connector 2		picoMAX® 3.5 (WAGO 2091 Series)

Physical data		
Width		80 mm / 3.15 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		0.197 MJ
Weight		1710 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	
eCl@ss 10.0	27-04-07-01
eCl@ss 9.0	27-04-07-01
ETIM 9.0	EC002540
ETIM 8.0	EC002540
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	CN
GTIN	4055143588973
Customs tariff number	85044083900

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	-	-
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-



Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-2742

Download icon

Documentation

Bid Text

787-2742	13.06.2019	xml 7.42 KB	Download icon
787-2742	13.06.2019	docx 23.18 KB	Download icon

Instruction Leaflet

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

CAD data

2D/3D Models 787-2742	Download icon
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CAE data

EPLAN Data Portal 787-2742	Download icon
ZUKEN Portal 787-2742	Download icon

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