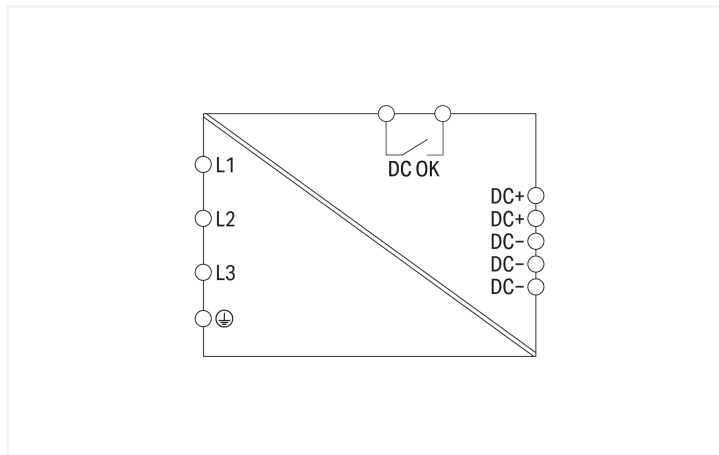


# Data Sheet | Item Number: 787-2742

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	
Phases	2 / 3
Nominal input voltage $U_{i, nom}$	(2 / 3) x 400 ... 480 VAC
Input voltage range	(2 / 3) x 325 ... 575 VAC; 560 ... 700 VDC
Nominal mains frequency range	47 ... 63 Hz; 0 Hz
Input current $I_i$	$\leq 3 \times 1.2 \text{ A}$ (400 VAC)
Discharge current	$\leq 3.5 \text{ mA}$
Inrush current	$\leq 30 \text{ A}$ (400 VAC)
Power factor	$\geq 0.7$ (400 VAC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	$\geq 10 \text{ ms}$ (3 x 400 VAC)

Output	
Nominal output voltage $U_{o, nom}$	24 VDC (SELV)
Output voltage range	22 ... 28 VDC (adjustable)
Default Setting	24 VDC
Nominal output current $I_{o, nom}$	20 A (24 VDC)
Nominal output power	480 W
Deviation	$\leq 1 \%$
Residual ripple	$\leq 150 \text{ mV}$ (peak-to-peak)
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

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)
Operation status indicator	Green LED ( $U_o$ ) Red LED (overload)

Efficiency/Power Losses	
Power loss $P_i$	$\leq 2.15 \text{ W}$ (400 VAC; no load); $\leq 42.5 \text{ W}$ (400 VAC; nominal load)
Efficiency (typ.)	92 %

### Circuit Protection

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

### Safety and protection

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	$\leq$ 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 1

Connection type	Input/output
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 2606 Series
Solid conductor	0.5 ... 6 mm <sup>2</sup> / 20 ... 10 AWG
Fine-stranded conductor	0.5 ... 6 mm <sup>2</sup> / 20 ... 10 AWG
Strip length	11 ... 13 mm / 0.43 ... 0.51 inches

#### Connection 2

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

### 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	0.297 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

PU (SPU)	1 pcs
Packaging type	Box
Country of origin	CN
GTIN	4055143588973
Customs tariff number	85044083900

### Product Classification

UNSPSC	39121004
eCl@ss 10.0	27-04-07-01
eCl@ss 9.0	27-04-07-01
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

#### General approvals

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

**Documentation**

Bid Text			
787-2742	13.06.2019	xml 7.42 KB	
787-2742	13.06.2019	docx 23.18 KB	

Instruction Leaflet			
Primär getaktete Stromversorgung ECO	V 1.5.0	pdf 980.89 KB	

**CAD/CAE-Data**

CAD data
2D/3D Models 787-2742

CAE data	
EPLAN Data Portal 787-2742	
ZUKEN Portal 787-2742	

**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

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

Current addresses can be found at: [www.wago.com](http://www.wago.com)