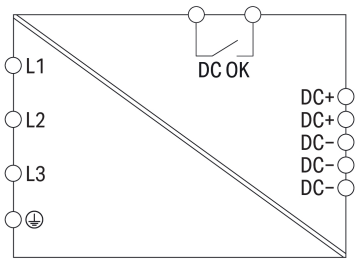
Data Sheet | Item Number: 787-2742

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	≤ 3 x 1.2 A (400 VAC)
Discharge current	≤ 3.5 mA
Inrush current	≤ 30 A (400 VAC)
Power factor	≥ 0.7 (400 VAC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 10 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	≤ 1 %
Residual ripple	≤ 150 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_l	≤ 2.15 W (400 VAC; no load); ≤ 42.5 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 ≥ 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	≤ 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 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	Signaling
Connection technology	Push-in CAGE CLAMP®
WAGO connector	*picoMAX*® 3.5 (WAGO 2091 Series)
Solid conductor	0.2 … 1.5 mm² / 24 … 14 AWG
Fine-stranded conductor	0.2 … 1.5 mm² / 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

Continued on next page

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

Continued on next page

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