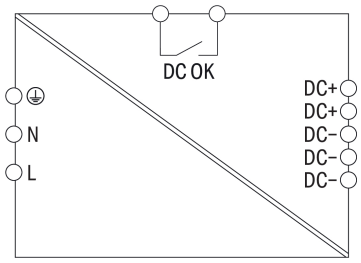
Data Sheet | Item Number: 787-736

Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 40 A output current; DC OK contact; 6,00 mm²

https://www.wago.com/787-736





Features:

- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Fast and tool-free termination via lever-actuated PCB terminal blocks
- Bounce-free switching signal (DC OK) via optocoupler
- Parallel operation
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

Technical data

Input

Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 110 … 240 VAC
Input voltage range	1 x 90 … 264 VAC; 130 … 373 VDC
Input voltage derating	-2 %/V (< 100 VAC)
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 6 A (230 VAC); ≤ 12 A (115 VAC)
Discharge current	≤ 2 mA
Inrush current	≤ 30 A
Power factor	≥ 0.94 (230 VAC); ≥ 0.98 (115 VAC)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 17 ms (230 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 $I_{o\,nom}$	40 A (24 VDC)
Nominal output power	960 W
Deviation	≤ 1 %
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.15 … 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 (optocoupler as make contact; max. 31.2 V; 20 mA)
Operation status indicator	Green LED (24 VDC OK) Red LED (overload)

Efficiency/Power Losses

Power loss P_l	≤ 107 W (230 VAC; nominal load)
Efficiency (typ.)	90 %

Circuit Protection

Internal fuse	T 20 A / 250 VAC
Pre-fuse (required)	An external DC fuse is required for the DC input voltage.
Backup fuse (recommended)	Circuit breaker: 13 A, 16 A, 20 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	≤ 29 VDC
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	Yes
Series operation	Yes
MTBF	> 250,000 h (per IEC 61709)

Connection Data

Connection 1

Connection type	Input/signaling
Connection technology	CAGE CLAMP®
WAGO connector	WAGO 2706 Series
Solid conductor	0.5 … 6 mm² / 20 … 10 AWG
Fine-stranded conductor	0.5 … 6 mm² / 20 … 10 AWG
Strip length	11 … 12 mm / 0.43 … 0.47 inches

Connection 2

Connection type	Output
Connection technology	CAGE CLAMP®
WAGO connector	WAGO 2716 Series
Solid conductor	1.5 … 16 mm² / 16 … 6 AWG
Fine-stranded conductor	1.5 … 16 mm² / 16 … 6 AWG
Strip length	12 … 13 mm / 0.47 … 0.51 inches

Physical data

Width	170 mm / 6.69 inches
Height	136 mm / 5.354 inches
Depth from upper-edge of DIN-rail	150 mm / 5.91 inches

Mechanical data

Mounting type	DIN-35 rail

Continued on next page

Material data

Weight	4189 g

Environmental requirements

Ambient temperature (operation)	-25 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	≤ 95 % (no condensation permissible)
Derating	-2.66 %/K (> 55 °C)
Climatic category	3K3 (per EN 60721)

Standards and Specifications

Conformity marking	CE
Standards/specifications	EN 62368-1 EN 61204-3 EN 61000-6-2 EN 61000-6-4 UL 60950-1 UL 508 SEMI F47

Commercial data

Product Group	6 (INTERFACE ELECTRONIC)
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	CN
GTIN	4050821748250
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
SCIP notification number (Bulgaria)	a62607a7-2856-4d66-af7d-40c67b37a0f5
SCIP notification number (Czech Republic)	6a5b31a3-c7f4-42d8-9112-e5ab02ad13dd

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

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	-	-

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-736

Documentation

Bid Text

787-736	12.07.2019	xml 7.01 KB
787-736	12.07.2019	docx 21.06 KB

Instruction Leaflet

Primary Switch Mode Power Supply ECO-Power	V 2.0.0 09.09.2024	pdf 372.12 KB

CAD/CAE-Data

CAD data

2D/3D Models 787-736

CAE data

EPLAN Data Portal 787-736

WSCAD Universe 787-736

ZUKEN Portal 787-736

1 Compatible Products

1.1 Optional Accessories

1.1.1 Tool

1.1.1.1 Operating tool



Item No.: 210-769
SCREWDRIVER; green