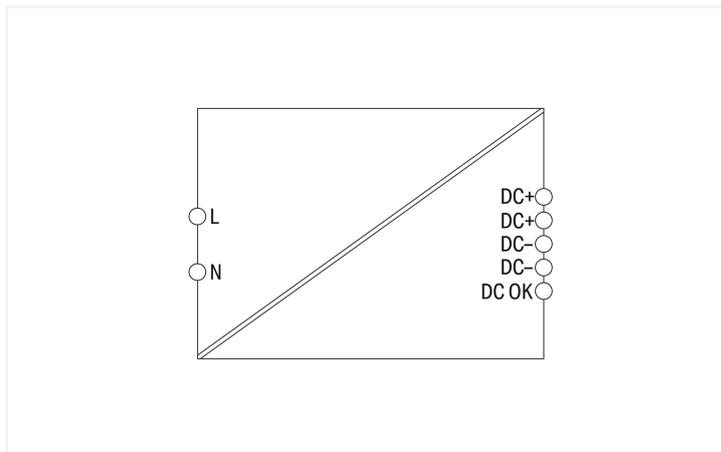


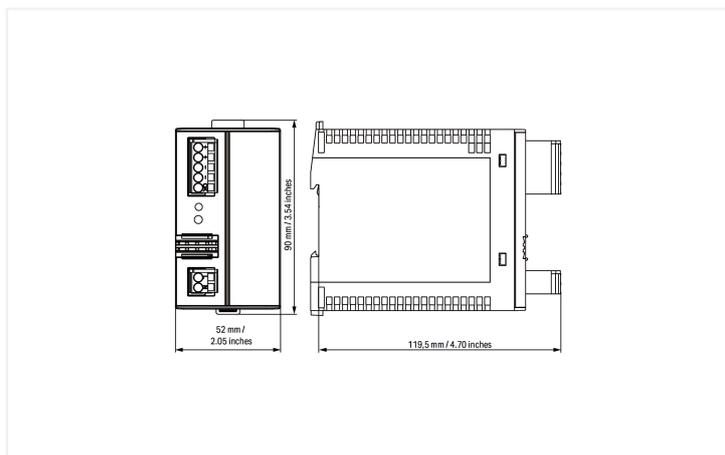
# Data Sheet | Item Number: 787-1616/000-070

Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 4 A output current; DC OK signal

<https://www.wago.com/787-1616/000-070>



Similar to illustration



## Features:

- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Bounce-free switching signal (DC OK)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204
- Coated PCBs, resistant to flowing mixed gas per ISA S71.04:1985, G3 Group A

## Technical data

### Input

Phases	1
Nominal input voltage $U_{1nom}$	1 x 100 ... 240 VAC
Input voltage range	1 x 85 ... 264 VAC; 120 ... 300 VDC
Input voltage derating	-2.5 %/V (< 95 VAC)
Nominal mains frequency range	44 ... 66 Hz; 0 Hz
Input current $I_1$	$\leq 0.98$ A (240 VAC); $\leq 1.82$ A (100 VAC)
Discharge current	$\leq 0.25$ mA
Inrush current	$\leq 30$ A

### Input

Power factor correction (PFC)	Passive
Mains failure hold-up time	$\geq 80$ ms (230 VAC); $\geq 15$ ms (100 VAC)

### Output

Nominal output voltage $U_{o, nom}$	24 VDC (SELV)
Output voltage range	23 ... 28.5 VDC (adjustable)
Default Setting	24 VDC
Nominal output current $I_{o, nom}$	4 A (24 VDC); 4.2 A (
Nominal output power	96 W
Deviation	≤ 1 %
Residual ripple	≤ 20 mV (peak-to-peak)
Current limitation	1.1 × $I_{o, nom}$ (typ.)
Overload behavior	Constant current

### Efficiency/Power Losses

Power loss $P_l$	≤ 1 W; ≤ 12.4 W (230 VAC; nominal load)
Power loss (max.) $P_{l(max)}$	15 W (100 VAC / 24 VDC; 4 A)
Efficiency (typ.)	89 %

### Safety and protection

Isolation voltage (pri.-sec.)	4.242 kVDC
Protection class	II
Protection type	IP20; per EN 60529
Protective coating	Coated PCBs
Resistance to reverse feed	≤ 35 VDC
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	Internal protective circuit ≤ 40 VDC (in the event of a fault)
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	Yes
Series operation	Yes
MTBF	> 500,000 h (per IEC 61709)

### Signaling and Communication

Signaling	1 x DC OK LED (green) 1 x Active signal output DC OK (24 VDC; 20 mA)
Operation status indicator	Green LED ( $U_o$ )

### Circuit Protection

Internal fuse	T 4 A / 250 VAC
Pre-fuse (required)	An external DC fuse is required for the DC input voltage.
Backup fuse (recommended)	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C

### Connection Data

#### Connection 1

Connection type	Input/output/signaling
Connection technology	CAGE CLAMP®
WAGO connector	WAGO 721 Series
Solid conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches

### Physical data

Width	52 mm / 2.047 inches
Height	90 mm / 3.543 inches
Depth from upper-edge of DIN-rail	119.5 mm / 4.705 inches

### Mechanical data

Mounting type	DIN-35 rail
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### Material data

Fire load	0 MJ
Weight	384 g

### Environmental requirements

Ambient temperature (operation)	-25 ... +70 °C (Device starts at -40 °C (type-tested))
Ambient temperature (storage)	-25 ... +85 °C
Relative humidity	5 ... 96 % (Coated PCB, no condensation permissible)
Derating	-3 %/K (> 50 °C)
Climatic category	3K3 (per EN 60721)

### Standards and Specifications

Conformity marking	CE
Standards/specifications	EN 61010-1 EN 61010-2-201 EN 61204-3 EN 60335-1 UL 60950-1 UL 508

### Commercial data

PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4055143293211
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

**Downloads**

**Environmental Product Compliance**

**Compliance Search**

Environmental Product Compliance 787-1616/000-070	↓
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**Documentation**

**Bid Text**

787-1616/000-070	04.06.2019	docx 20.53 KB	↓
787-1616/000-070	04.07.2019	xml 6.75 KB	↓

**Instruction Leaflet**

Primär getaktete Stromversorgungen CLASSIC	pdf 1689.02 KB	↓
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**CAD/CAE-Data**

**CAD data**

2D/3D Models 787-1616/000-070	↓
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**CAE data**

EPLAN Data Portal 787-1616/000-070	↓
WSCAD Universe 787-1616/000-070	↓
ZUKEN Portal 787-1616/000-070	↓

## 1 Compatible Products

### 1.1 Optional Accessories

#### 1.1.1 Tool

##### 1.1.1.1 Operating tool



Item No.: 210-769  
SCREWDRIVER; green