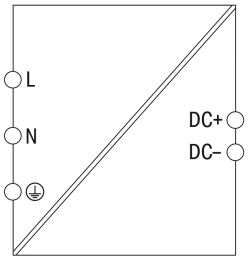
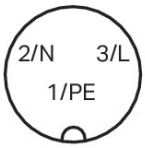
Data Sheet | Item Number: 787-6716

Switched-mode power supply; 1-phase; 24 VDC output voltage; 4 A output current; PowerBoost

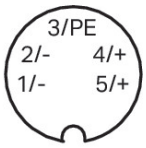
https://www.wago.com/787-6716







7/8" plug



7/8" socket

Features:

- Switched-mode power supply with PowerBoost
- Low-profile, compact design
- Extremely robust, fully encapsulated housing (IP67)
- Active power factor correction
- High efficiency up to 92.3 %
- Surrounding air temperature up to 85 °C
- Suitable for both parallel and series operation

Technical data

Input

Phases	1
Nominal input voltage $U_{i\,nom}$	100 … 240 VAC/VDC
Input voltage range	90 … 265 VAC/VDC
Nominal mains frequency range	47 … 63.6 Hz; 0 Hz
Input current I_i	≤ 0.5 A (250 VAC); ≤ 1.1 A (100 VAC)
Inrush current	≤ 9 A
Power factor	≥ 0.98
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 45 ms

Output

Nominal output voltage $U_{o\,nom}$	24 VDC
Output voltage range	±2 %
Nominal output current $I_{o\,nom}$	4 A
Nominal output power	96 W
Residual ripple	≤ 100 mV (peak-to-peak); ≤ 20 mV (rms)
Overload behavior	Constant current
PowerBoost	6 ADC (5 s; without voltage drop)

Continued on next page

Signaling and Communication

Signaling	1 x DC OK LED (green) 1 x Overload LED (red)
Operation status indicator	Green LED (24 VDC OK) Red LED (overload)

Efficiency/Power Losses

Power loss P_l	≤ 1 W; ≤ 7.9 W (nominal load)
Efficiency (typ.)	92.3 % (230 VAC)

Circuit Protection

Internal fuse	T 6.3 A
Backup fuse (recommended)	Circuit breaker: 4 … 20 A; Characteristic: C T 20 A in building installations

Safety and protection

Protection class	I
Protection type	IP67
Resistance to reverse feed	≤ 35 VDC
Overvoltage protection; secondary	≤ 30 VDC (per IEC 61131)
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	3 devices (max.)
Series operation	2 devices (max.)
MTBF	> 960,000 h

Connection Data

Connection 1

Connection type	Input
Connection technology	7/8"; 3-pole plug

Connection 2

Connection type	Output
Connection technology	7/8"; 5-pole socket

Physical data

Width	111 mm / 4.37 inches
Height	141 mm / 5.55 inches
Depth	54 mm / 2.123 inches

Mechanical data

Mounting type	Screw mount

Material data

Weight	1100 g

Environmental requirements

Ambient temperature (operation)	-40 … +85 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	4 … 100 %
Derating	-3.84 W/K (> 60 °C)
Climatic category	4K6 (per EN 60721)

Continued on next page

Standards and Specifications

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

Commercial data

PU (SPU)	1 pcs
Packaging type	Box
Country of origin	CZ
GTIN	4055143644877
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
UL Underwriters Laboratories Inc.	UL 508	E255817

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-6716

Continued on next page

Documentation

Bid Text

787-6716	04.07.2019	xml 6.10 KB	
787-6716	12.06.2019	docx 18.81 KB	

Instruction Leaflet

Primär getaktete Stromversorgung IP67	18.05.2021	pdf 447.12 KB	

CAD/CAE-Data

CAD data

2D/3D Models 787-6716

CAE data

EPLAN Data Portal
787-6716

1 Compatible Products

1.1 Optional Accessories

1.1.1 Cables and connectors

1.1.1.1 Pluggable connectors



Item No.: 787-6716/9000-1000
Pluggable connector, 7/8 inch; 7/8 inch; 3-pole



Item No.: 787-6716/9100-000
Pluggable connector, 7/8 inch; 7/8 inch; 3-pole; Plug, straight



Item No.: 787-6716/9400-000
Pluggable connector, 7/8 inch; 7/8 inch; 3-pole; Socket, angled



Item No.: 787-6716/9300-000
Pluggable connector, 7/8 inch; 7/8 inch; 3-pole; Socket, straight



Item No.: 787-6716/9600-000
Pluggable connector, 7/8 inch; 7/8 inch; 5-pole; Plug, angled



Item No.: 787-6716/9500-000
Pluggable connector, 7/8 inch; 7/8 inch; 5-pole; Plug, straight



Item No.: 787-6716/9800-000
Pluggable connector, 7/8 inch; 7/8 inch; 5-pole; Socket, angled



Item No.: 787-6716/9700-000
Pluggable connector, 7/8 inch; 7/8 inch; 5-pole; Socket, straight

1.1.1.2 Power supply cable



Item No.: 787-6716/9310-100
Supply cable, pre-assembled, 7/8 inch; 7/8 inch; 3-pole; Socket, straight; Length: 10 m



Item No.: 787-6716/9310-030
Supply cable, pre-assembled, 7/8 inch; 7/8 inch; 3-pole; Socket, straight; Length: 3 m



Item No.: 787-6716/9310-050
Supply cable, pre-assembled, 7/8 inch; 7/8 inch; 3-pole; Socket, straight; Length: 5 m



Item No.: 787-6716/9510-015
Supply cable, pre-assembled, 7/8 inch; 7/8 inch; 5-pole; Plug, straight; Length: 1.5 m



Item No.: 787-6716/9510-030
Supply cable, pre-assembled, 7/8 inch; 7/8 inch; 5-pole; Plug, straight; Length: 3 m



Item No.: 787-6716/9510-050
Supply cable, pre-assembled, 7/8 inch; 7/8 inch; 5-pole; Plug, straight; Length: 5 m