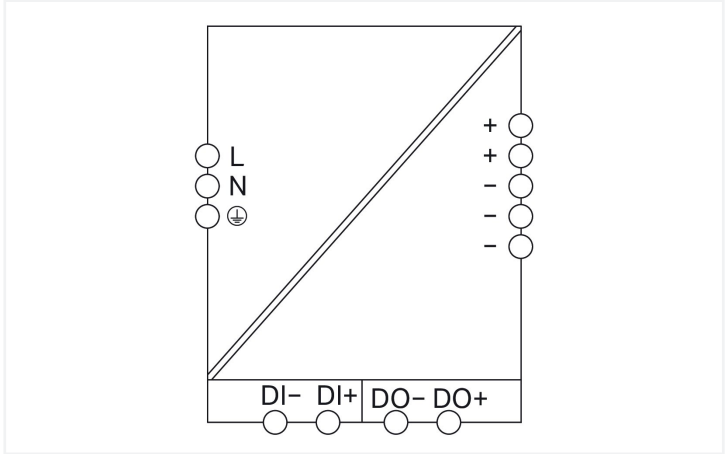




Features:

- Power supply with TopBoost, PowerBoost and configurable overload behavior
- Configurable digital signal input and output, optical status indication, function keys
- Communication interface for configuration and monitoring
- Optional connection to IO-Link, EtherNet/IP™, Modbus TCP or Modbus RTU
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Pluggable connection technology
- Electrically isolated output voltage (SELV/PELV) per EN 61010-2-201/UL 61010-2-201
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

Technical data			
Input		Output	
Phases	1	Nominal output voltage $U_{o\ nom}$	DC 24 V (SELV)
Nominal input voltage $U_{i\ nom}$	1 x AC 100 ... 240 V	Output voltage range	DC 24 ... 28 V (adjustable)
Input voltage range	1 x AC 90 ... 264 V	Default Setting	DC 24 V
Nominal mains frequency range	50 ... 60 Hz	Nominal output current $I_{o\ nom}$	10 A (24 VDC)
Input current I_i	≤ 1.2 A (240 VAC; nominal load); ≤ 2.7 A (100 VAC; nominal load)	Nominal output power	240 W
Inrush current	≤ 11 A (after 1 ms)	Deviation	≤ 1 %
Power factor correction (PFC)	Active	Residual ripple	≤ 70 mV (peak-to-peak)
Mains failure hold-up time	≥ 25 ms (230 VAC)	Current limitation	1.1 x $I_{o\ nom}$ (typ.)
		Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)
		PowerBoost	DC 15 A (5 s)
		TopBoost	Up to 600 %

Signaling and communication		Efficiency/power losses	
Signaling	Optical status indication (DC OK; load; warning and error states) Digital signal input and output (DI/DO)	Power loss P_i	≤ 1 W (standby); ≤ 2.2 W (no load); ≤ 12 W (230 VAC; nominal load)
Communications	EtherNet/IP™ (2789-9023 Communication Module) IO-Link (2789-9080 Communication Module) Modbus RTU (Communication Module 2789-9015) USB (750-923 Communication Cable) Modbus TCP (2789-9052 Communication Module)	Efficiency (typ.)	95.2 % (230 VAC; 10 A; 25 °C)



Circuit protection	
Internal fuse	T 6.3 A / 250 VAC
Backup fusing (recommended)	16 A (for USA/Canada: 15 A)

Safety and protection	
Isolation voltage (pri.-sec., AC)	3510 V
Isolation voltage (pri.-PE, AC)	2200 V
Isolation voltage (sec.-PE)	DC 0.5 kV
Isolation voltage (sec.-signal)	DC 0.5 kV
Protection class	I
Protection type	IP20; per EN 60529
Resistance to reverse feed	≤ DC 35 V
Overvoltage category	III (≤ 2000 m a.s.l.); II (> 2000 m a.s.l.)
Pollution degree	2
Transient suppression (primary)	Yes
Overvoltage protection; secondary	Internal protective circuit ≤ 35 VDC (in the event of a fault)
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	Yes
Series operation	Yes
MTBF	> 1,200,000 h (per IEC 61709)

Connection data	
Connection type 1	Input/output/signaling
Connection technology	CAGE CLAMP®
WAGO connector	WAGO 721 Series
Solid conductor	0.08 ... 2.5 mm² / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 2.5 mm² / 28 ... 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 1.5 mm² / 20 ... 16 AWG
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 2.5 mm² / 20 ... 14 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches

Physical data	
Width	50 mm / 1.969 inches
Height	130 mm / 5.118 inches
Depth from upper-edge of DIN-rail	130 mm / 5.118 inches
Note (dimensions)	Height without connector Height with connector: 166 mm

Mechanical data	
Mounting type	DIN-35 rail



Material data	
Fire load	0 MJ
Weight	1000 g

Environmental requirements	
Ambient temperature (operation)	-25 ... +70 °C (Device starts at -40 °C (type-tested))
Ambient temperature (storage)	-40 ... +85 °C
Relative humidity	5 ... 96 % (no condensation permissible)
Derating	-3%/K (> +55°C and U _i < 230°VAC); -3%/K (> +60°C and U _i ≥ 230°VAC)
Climatic category	3K3 (per EN 60721)
Operating altitude (max.)	5000 m

Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1 EN 61010-2-201 EN 61204-3 UL 61010-1 UL 61010-2-201 DNV UL HazLoc SEMI F47

Commercial data	
ETIM 9.0	EC002540
ETIM 8.0	EC002540
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	CN
GTIN	4066966115291
Customs tariff number	85044083900

Environmental Product Compliance	
RoHS Compliance Status	Compliant, No Exemption

Approvals / Certificates														
General approvals		Declarations of conformity and manufacturer's declarations												
 														
Approval	Standard	Certificate Name												
EAC GZO Almaty Standart	TP TC 004/2011	EAC CoC 03080												
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03081												
UL Underwriters Laboratories Inc.	UL 61010-2-201	E255817												
		<table><tr><th>Approval</th><th>Standard</th><th>Certificate Name</th></tr><tr><td>EU-Declaration of Confor- mity WAGO GmbH & Co. KG</td><td>-</td><td>-</td></tr><tr><td>MFD for SEMI F47 WAGO GmbH & Co. KG</td><td>-</td><td>-</td></tr><tr><td>UK-Declaration of Confor- mity WAGO GmbH & Co. KG</td><td>-</td><td>-</td></tr></table>	Approval	Standard	Certificate Name	EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-	MFD for SEMI F47 WAGO GmbH & Co. KG	-	-	UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
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Approvals for marine applications



Approval	Standard	Certificate Name
DNV DNV GL SE	DNV-CG-0339,Aug.2021	TAA00002ZF

Approvals for hazardous areas



Approval	Standard	Certificate Name
UL Underwriters Laboratories Inc. (HAZARDOUS LOCA- TIONS)	UL 121201	A-E198726

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 2787-2146/000-030



Documentation

Manual
Product Manual Power supply; Pro 2; 1-phase; 24 VDC output voltage; 10 A output current

V 1.2.2
18.02.2022

pdf
8191.26 KB



Instruction Leaflet
WAGO Pro 2 Power Supplies

V 1.1.0
26.04.2021

pdf
4459.96 KB



CAD/CAE-Data

CAD data
2D/3D Models 2787-2146/000-030



Runtime Software

Firmware
2787-2146, Stromver- sorgung; Pro 2

V 010513
13.10.2021

zip
1187.33 KB



1 Compatible Products

1.1 Product Expansions

1.1.1 Communication module



Item No.: 2789-9023 Communication module; EtherNet/IP; MQTT; communication capability

Item No.: 2789-9080 Communication module; IO-Link; commu- nication capability

Item No.: 2789-9015 Communication module; Modbus RTU; RJ45; communication capability
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Item No.: 2789-9052 Communication module; Modbus TCP; communication capability
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1.2 Optional Accessories
1.2.1 Marking
1.2.1.1 Marker carrier



Item No.: [2789-1233](#)
Marker carrier; for WMB or marking strips;
Length: 33 mm