



- 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 $U_{o\ nom}$	24 VDC (SELV)
Nominal input voltage $U_{i\ nom}$	1 x 100 ... 240 VAC	Output voltage range	24 ... 28 VDC (adjustable)
Input voltage range	1 x 90 ... 264 VAC	Default Setting	DC 24 V
Nominal mains frequency range	50 ... 60 Hz	Nominal output current $I_{o\ nom}$	5 A (24 VDC)
Input current I_i	≤ 1 A (240 VAC; nominal load); ≤ 1.8 A (100 VAC; nominal load)	Nominal output power	120 W
Inrush current	≤ 9 A (after 1 ms)	Deviation	≤ 1 %
Power factor correction (PFC)	Active	Residual ripple	≤ 70 mV (peak-to-peak)
Mains failure hold-up time	≥ 20 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)



Output	
PowerBoost	DC 7.5 A (5 s)
TopBoost	Up to 600 %

Signaling and communication	
Signaling	Optical status indication (DC OK; load; warning and error states) Digital signal input and output (DI/DO)
Communications	USB (750-923 Communication Cable) EtherNet/IP™ (2789-9023 Communication Module) IO-Link (2789-9080 Communication Module) Modbus RTU (Communication Module 2789-9015) Modbus TCP (2789-9052 Communication Module)

Efficiency/power losses	
Power loss P _I	≤ 1 W (standby); ≤ 2 W (no load); ≤ 10 W (230 VAC; nominal load)
Efficiency (typ.)	93.8 % (230 VAC; 5 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)	0.5 kVDC
Isolation voltage (sec.-signal)	0.5 kVDC
Protection class	I
Protection type	IP20; per EN 60529
Resistance to reverse feed	≤ 35 VDC
Overvoltage category	III (≤ 2000 m ü. N. N.); II (> 2000 m ü. N. N.)
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	> 1,000,000 h (per IEC 61709)

Connection data	
Connection 1	
Connection type	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	2.5 ... 1.5 mm² / 12 ... 16 AWG
Fine-stranded conductor; with uninsulated ferrule	1.5 ... 0.08 mm² / 16 ... 28 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches



Physical data	
Width	35 mm / 1.378 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	650 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	See instruction leaflet
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 SEMI F47

Commercial data	
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	CN
GTIN	4055143907415
Customs tariff number	85044083900

Product classification	
UNSPSC	39121004
ETIM 9.0	EC002540
ETIM 8.0	EC002540
ECCN	NO US CLASSIFICATION



Environmental Product Compliance	
RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates

General approvals			Declarations of conformity and manufacturer's declarations		
Approval	Standard	Certificate Name	Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 004/2011	EAC CoC 03080	EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03081	MFD for SEMI F47 WAGO GmbH & Co. KG	-	-
			UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

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 2787-2144	

Documentation

Manual				Bid Text			
Product Manual Power supply; Pro 2; 1-phase; 24 VDC output voltage; 5 A output current	V 1.2.2 18.02.2022	pdf 7997.98 KB		2787-2144_EUSA	04.07.2019	docx 23.34 KB	
				2787-2144_EUSA			
				ausschreiben.de 2787-2144			



Instruction Leaflet			
WAGO Pro 2 Power Supplies	V 1.1.0 26.04.2021	pdf 4445.43 KB	

Application Notes

Application Note e!COCKPIT			
e!COCKPIT Application Note WagoAppPower-Supply (a2019012)	1.1.1 06.12.2021	pdf 707.04 KB	

CAD/CAE-Data

CAD data	
2D/3D Models 2787-2144	

CAE data	
EPLAN Data Portal 2787-2144	
ZUKEN Portal 2787-2144	

Runtime Software

Firmware			
2787-2144, Stromversorgung; Pro 2	V 010513 13.10.2021	zip 1087.50 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; communication capability



[Item No.: 2789-9015](#)
Communication module; Modbus RTU; RJ45; communication capability



[Item No.: 2789-9052](#)
Communication module; Modbus TCP; communication capability

1.2 Optional Accessories

1.2.1 Cables and connectors

1.2.1.1 Communication cable



[Item No.: 750-923/000-001](#)
Configuration cable; USB connector; Length: 5 m

1.2.2 Communication

1.2.2.1 Communication cable



Item No.: 750-923
Configuration cable; USB connector;
Length: 2.5 m

1.2.3 Marking

1.2.3.1 Marker



Item No.: 2009-115
WMB-Inline; for Smart Printer; 1500 pieces
on roll; stretchable 5 - 5.2 mm; plain; snap-
on type; white

1.2.3.2 Marker carrier



Item No.: 2789-1233
Marker carrier; for WMB or marking strips;
Length: 33 mm

1.2.3.3 Marking strip



Item No.: 2009-110
Marking strips; for Smart Printer; on reel;
not stretchable; plain; snap-on type; white

1.2.4 Tool

1.2.4.1 Operating tool



Item No.: 210-720
Operating tool; Blade: 3.5 x 0.5 mm; with a
partially insulated shaft; multicoloured



Item No.: 210-721
Operating tool; Blade: 5.5 x 0.8 mm; with a
partially insulated shaft; multicoloured