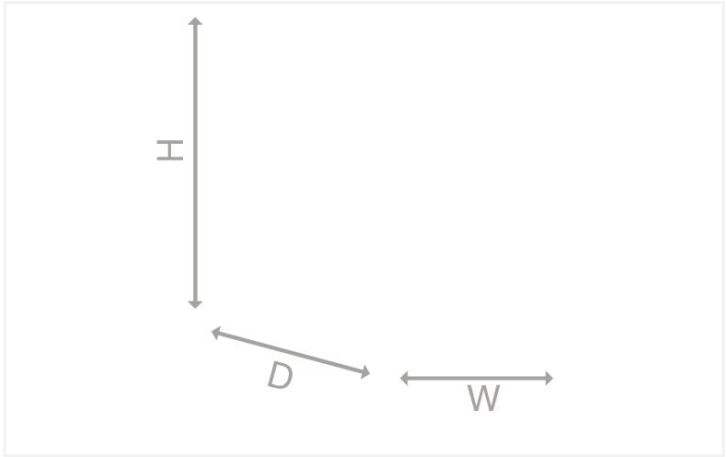
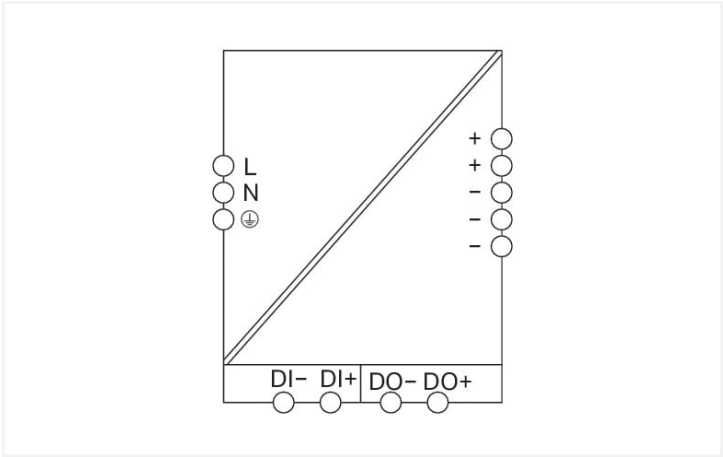




Features:

- 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; DC 130 ... 240 V	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	$1.1 \times I_{o\ nom}$ (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)
Communication	USB (Communication Cable 750-923) Ethernet/IP (Communication Module 2789-9023) IO-Link (Communication Module 2789-9080) Modbus RTU (Communication Module 2789-9015) Modbus TCP (Communication Module 2789-9052)

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 (required)	An external DC fuse is required for the DC input voltage.
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	> 1,000,000 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	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

Ambient temperature (operation at U _N)	-25 ... +70 °C (Device starts at -40 °C (type-tested))
Surrounding air temperature (storage)	-40 ... +85 °C
Relative humidity	5 ... 96 % (no condensation permissible)
Operating altitude (max.)	5000 m

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

ETIM 8.0	EC002540
ETIM 7.0	EC002540
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	CN
GTIN	4055143907415
Customs tariff number	85044083900

General approvals		
Approval	Standard	Certificate Name
UL Underwriters Laboratories Inc.	UL 61010-2-201	E255817

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

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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	04.07.2019	xml 7.90 KB	↓
				ausschreiben.de 2787-2144			↓

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

CAD/CAE-Data

CAD data		CAE data	
2D/3D Models 2787-2144	↓	EPLAN Data Portal 2787-2144	↓
		ZUKEN Portal 2787-2144	↓

Engineering-Software

Software for Interface-Products			
WAGO Interface Configuration Software G2 FULL	1.0.8.6 20.01.2022	exe 111289.67 KB	↓
WAGO Interface Configuration Software G2 SMALL	1.0.8.6 20.01.2022	exe 29307.84 KB	↓

Runtime Software

Firmware			
2787-2144, Stromversorgung; Pro 2	V 010513 13.10.2021	zip 1087.50 KB	↓

1 Compatible Products

1.1 Optional Accessories

1.1.1 Cables and connectors



1.1.1.1 Communication cable



Item No.: 750-923/000-001
Configuration cable; USB connector;
Length: 5 m

1.1.2 Communication

1.1.2.1 Communication cable



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

1.1.2.2 Communication module



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



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



Item No.: 2789-9015
Communication module; Modbus RTU;
RJ45; communication capability



Item No.: 2789-9052
Communication module; Modbus TCP;
communication capability

1.1.3 Marking

1.1.3.1 Marker



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

1.1.3.2 Marker carrier



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

1.1.3.3 Marking strip



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

1.1.4 Tool



1.1.4.1 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