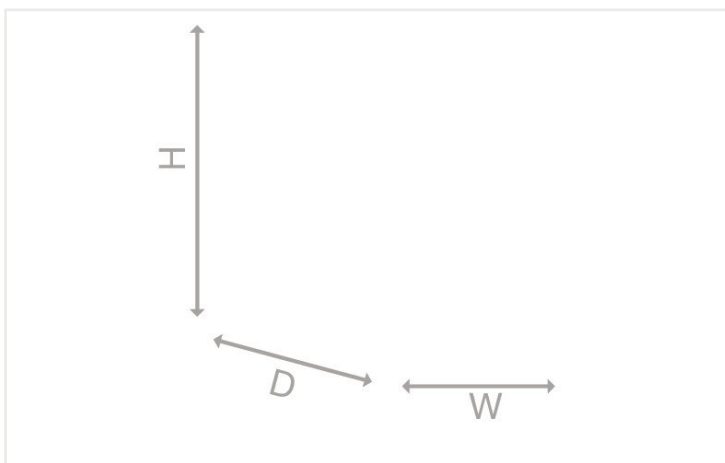
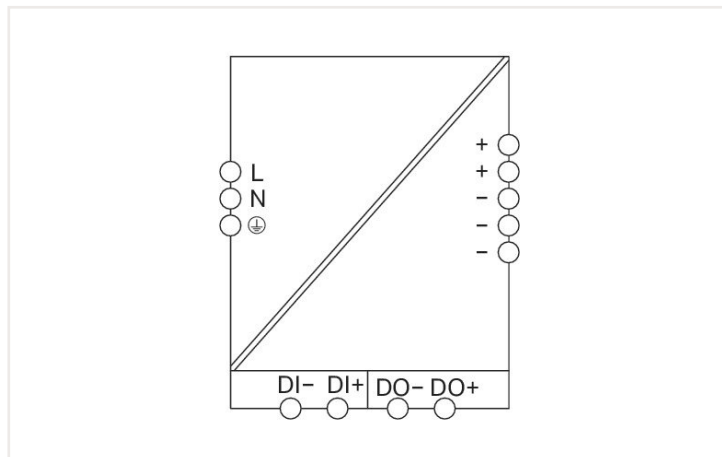


|: 2787-2144

Power supply; Pro 2; 1-phase; 24 VDC output voltage; 5 A output current; TopBoost + PowerBoost; communication capability

<https://www.wago.com/2787-2144>



### 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
- 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	
Phases	1
Nominal input voltage $U_{i, nom}$	1 x AC 100 ... 240 V
Input voltage range	1 x AC 90 ... 264 V; DC 130 ... 240 V
Nominal mains frequency range	50 ... 60 Hz
Input current $I_i$	≤ 1 A (240 VAC; nominal load); ≤ 1.8 A (100 VAC; nominal load)
Inrush current	≤ 9 A (after 1 ms)
Power factor correction (PFC)	active
Mains failure hold-up time	≥ 20 ms (230 VAC)

Output	
Nominal output voltage $U_{o, nom}$	DC 24 V (SELV)
Output voltage range	DC 24 ... 28 V (adjustable)
Default setting	DC 24 V
Nominal output current $I_{o, nom}$	5 A (24 VDC)
Nominal output power	120 W
Deviation	≤ 1 %
Residual ripple	≤ 70 mV (Peak-to-peak)
Current limitation	1.1 x $I_{o, nom}$ (typ.)

## Output

Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)
PowerBoost	DC 7.5 A (5 s)
TopBoost	up to 600 %

## Efficiency/power losses

Power loss $P_1$	$\leq 1$ W (Standby); $\leq 2$ W (No load); $\leq 10$ W (230 VAC; nominal load)
Efficiency (typ.)	93.8 % (230 VAC; 5 A; 25 °C)

## 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
Note on protection type	per EN 60529
Resistance to reverse feed	$\leq$ DC 35 V
Overvoltage category	III ( $\leq 2000$ m a. s.l.); II (
Pollution degree	2
Transient suppression (primary)	Yes
Overvoltage protection; secondary	Internal protective circuit $\leq 35$ VDC (in the event of a fault)
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	Yes
Series operation	Yes
MTBF	

## Signaling and communication

Signaling	Optical status indication (DC OK; load; warning and error states) Digital signal input and output (DI/DO)
Communication	Communication interface, can be used with WAGO USB Communication Cable (750-923) or IO-Link Communication Module (2789-9080), Modbus RTU Communication Module (2789-9015) or Modbus TCP Communication Module (2789-9052)

## Circuit protection

Internal fuse	T 6.3 A / 250 VAC
Required backup fusing	An external DC fuse is required for the DC input voltage.
Recommended backup fusing	16 A (for USA/Canada: 15 A)

## Connection data

Connection type 1	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
Fine-stranded conductor; with insulated ferrule	2.5 ... 1.5 mm <sup>2</sup> / 12 ... 16 AWG
Fine-stranded conductor; with uninsulated ferrule	1.5 ... 0.08 mm <sup>2</sup> / 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
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### Material data

Fire load	0 MJ
Weight	650 g

### Environmental requirements

Ambient temperature (operation)	-25 ... +70 °C (Device starts at -40 °C (type-tested))
Surrounding air temperature (storage)	-40 ... +85 °C
Relative humidity	5 ... 96 % (no condensation permissible)
Derating	See instruction leaflet
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

### Commercial data

ETIM 8.0	EC002540
ETIM 7.0	EC002540
PU (SPU)	1 Stück
Packaging type	Box
Country of origin VKOrg Germany	CN
GTIN	4055143907415
Customs tariff number VKOrg Germany	85044082900

### Approvals and certificates

#### UL-Approvals



UL Underwriters Laboratories Inc.	UL 61010-2-201	E255817
UL Underwriters Laboratories Inc.	UL 121201	A-E198726

## Downloads

### Environmental Product Compliance

#### Compliance Search

Environmental Product  
Compliance 2787-2144



## Documentation

### Manual

Power supply; Pro 2; 1-  
phase; 24 VDC output  
voltage; 5 A output cur-  
rent

V 1.2.2  
18.02.2022

pdf  
7997.98 KB



### Additional Information

Disposal; Electrical and  
electronic equipment,  
Packaging

V 1.0.0

pdf  
259.56 KB



### Bid Text

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

2D/3D Models  
2787-2144



### CAE data

EPLAN Data Portal  
2787-2144



ZUKEN Portal  
2787-2144



## Engineering-Software

### Software for Interface-Products

WAGO Interface Confi-  
guration Software G2  
FULL

1.0.8.6  
20.01.2022

exe  
111289.67 KB



WAGO Interface Confi-  
guration Software G2  
SMALL

1.0.8.6  
20.01.2022

exe  
29307.84 KB



## Runtime Software

### Firmware

2787-2144, Stromver-  
sorgung; Pro 2

V 010513  
13.10.2021

zip  
1087.50 KB



## Libraries

### Device Description File

Device description files	1.1	zip	
IODD 2787-2144		90.84 KB	

## 1 Compatible products

### 1.1 Optional accessories

#### 1.1.1 Cables and connectors

##### 1.1.1.1 Communication cable



[: 750-923](#)  
Configuration cable; USB connector;  
Length: 2.5 m



[: 750-923/000-001](#)  
Configuration cable; USB connector;  
Length: 5 m

#### 1.1.2 Communication

##### 1.1.2.1 Communication module



[: 2789-9080](#)  
Communication module; IO-Link; commu-  
nication capability



[: 2789-9015](#)  
Communication module; Modbus RTU;  
RJ45; communication capability



[: 2789-9052](#)  
Communication module; Modbus TCP;  
communication capability

#### 1.1.3 Ferrule

##### 1.1.3.1 Ferrule



[: 216-301](#)  
Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; in-  
sulated; electro-tin plated; yellow



[: 216-321](#)  
Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; in-  
sulated; electro-tin plated; yellow



[: 216-302](#)  
Ferrule; Sleeve for 0.34 mm<sup>2</sup> / 22 AWG; in-  
sulated; electro-tin plated; light turquoise



[: 216-322](#)  
Ferrule; Sleeve for 0.34 mm<sup>2</sup> / 22 AWG; in-  
sulated; electro-tin plated; light turquoise



[: 216-241](#)  
Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; in-  
sulated; electro-tin plated; electrolytic  
copper; gastight crimped; acc. to DIN  
46228, Part 4/09.90; white



[: 216-201](#)  
Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; in-  
sulated; electro-tin plated; white



[: 216-221](#)  
Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; in-  
sulated; electro-tin plated; white



[: 216-242](#)  
Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; in-  
sulated; electro-tin plated; electrolytic  
copper; gastight crimped; acc. to DIN  
46228, Part 4/09.90; gray



[: 216-262](#)  
Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; in-  
sulated; electro-tin plated; electrolytic  
copper; gastight crimped; acc. to DIN  
46228, Part 4/09.90; gray



[: 216-202](#)  
Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; in-  
sulated; electro-tin plated; gray



[: 216-222](#)  
Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; in-  
sulated; electro-tin plated; gray



[: 216-243](#)  
Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; in-  
sulated; electro-tin plated; electrolytic cop-  
per; gastight crimped; acc. to DIN 46228,  
Part 4/09.90; red



[: 216-263](#)  
Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; in-  
sulated; electro-tin plated; electrolytic cop-  
per; gastight crimped; acc. to DIN 46228,  
Part 4/09.90; red



[: 216-203](#)  
Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; in-  
sulated; electro-tin plated; red



[: 216-223](#)  
Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; in-  
sulated; electro-tin plated; red



[: 216-204](#)  
Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; in-  
sulated; electro-tin plated; black

### 1.1.3.1 Ferrule



#### : 216-224

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; black

#### : 216-244

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

#### : 216-264

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

#### : 216-284

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

### 1.1.4 Marking

#### 1.1.4.1 Marker



#### : 2009-115

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

#### 1.1.4.2 Marking strip



#### : 2009-110

Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

### 1.1.5 Tool

#### 1.1.5.1 Operating tool



#### : 210-720

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

#### : 210-721

Operating tool; Blade: 5.5 x 0.8 mm; with a partially insulated shaft; multicoloured