

# Power Supplies

Power Supply Pro 2; 1-phase, 24 VDC, 20 A, 480 W

2787-2147 (/0000-00x0)



# Properties

## 3.1 Introduction

The 2787 Series WAGO Power Supplies Pro 2 are compact switched-mode Power supplies with a wide range of uses. The Power supplies can be fitted on a DIN-rail.

The Power supplies can be configured directly via buttons on the product or via the integrated communication interface. For this purpose, the connection is established either via the WAGO USB Communication Cable or via an attached communication module. It is also possible to record and evaluate various output parameters via the WAGO Interface Configuration software, which is available separately.

The pluggable connection technology uses WAGO pluggable connectors. These allow pre-wiring for quicker installation, as well as quicker and easier product replacement.


LEDs indicate various diagnostic messages (see section Indicators).

## 3.2 View



Figure 1: View

Table 3: Legend for Figure “View”

Position	Comment	For Details, See Section
a	Ventilation openings	—
b	Signal (X3)	 <a href="#">Signal [▶ 16]</a>
c	Output (X2)	Ausgang

Property		Value
	Insulated ferrule with plastic collar	0.25 ... 1.5 mm <sup>2</sup> / 20 ... 16 AWG
	Ferrule without plastic collar	0.25 ... 2.5 mm <sup>2</sup> / 20 ... 14 AWG
Strip length		8 ... 9 mm / 0.31 ... 0.35 inch
Specifications of the conductors used		$\geq +75^{\circ}\text{C} / +167^{\circ}\text{F}$ (ambient air temperature: $\leq +60^{\circ}\text{C} / 140^{\circ}\text{F}$ ) $\geq +90^{\circ}\text{C} / 194^{\circ}\text{F}$ (ambient air temperature: $> +60^{\circ}\text{C} / 140^{\circ}\text{F}$ )
Required tools (conductor termination)		Operating tool, with a partially insulated shaft, type 2 (see section <a href="#">Accessories</a> <a href="#">▶ 72</a> )

### 3.9.3 Output

Table 20: Technical Data – Output

Property	Value
Nominal output voltage	24 VDC SELV <sup>1)</sup>
Output voltage range	24 ... 28 VDC SELV
Nominal output current	20 A (see section Derating)
Output current range	20 ... 17.1 A
Output power <sup>2)</sup>	480 W
Power Boost	30 A (5 s)
Top Boost	120 A (15 ms)
Derating of output power	See section Derating
Line regulation <sup>2)</sup>	$< 0.02\%$
Load regulation <sup>3)</sup>	$< 2.0\%$
Residual ripple/noise <sup>4)</sup>	$< 70\text{ mV}$
Overload behavior <sup>5) 6)</sup>	“Constant Current” Mode <sup>1)</sup> “Constant Current with Latching Shutdown” Mode “Hiccup” Mode “Electronic Circuit Breaker” Mode “Latching Shutdown on Thermal Overload” Mode “Power Boost” Mode “Top Boost” Mode

<sup>1)</sup> Factory setting

<sup>2)</sup> Nominal load, in range 90 ... 264 VAC

<sup>3)</sup> 10 % / 90 % load step

<sup>4)</sup> 20 MHz bandwidth

<sup>5)</sup> See section [Short-Circuit and Overload Behavior](#) [▶ 65](#)

<sup>6)</sup> Can be set via the WAGO Interface Configuration software

<sup>7)</sup> See figure “Turn-on Time”

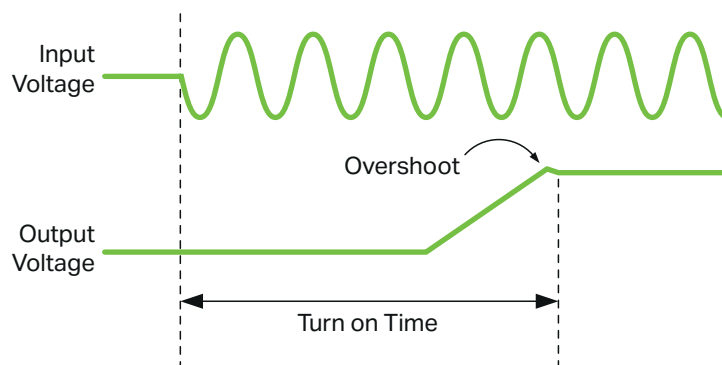


Figure 10: Turn-on Time