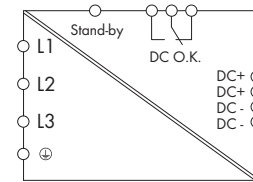


## Switched-Mode Power Supply, 3-Phase

EPSITRON® PRO Power



- Primary switch mode power supply unit with PowerBoost and TopBoost
- Stand-by input for switching off the output and minimizing power consumption
- DC OK contact for output monitoring
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1

## Technical Data

## Input:

Nominal input voltage $V_{i\text{nom}}$	3x (2x) 400 ... 500 VAC
Input voltage range	340 ... 550 VAC; 480 ... 780 VDC
Frequency	50 Hz ... 60 Hz
Input current $I_i$	3 x 2.0 A at 340 VAC and 20 ADC
Discharge current	1 mA typ.
Inrush current	< 30 A (peak)
Mains failure hold-up time	15 ms typ. at 3 x 400 VAC

## Output:

Nominal output voltage $V_{o\text{nom}}$	48 VDC (SELV)
Output voltage range	39 ... 53 VDC adjustable
Output current $I_o$	20 A at 48 VDC
PowerBoost	30 ADC (for 4 s); 25 ADC (for 16 s)
TopBoost	80 ADC (for 25 ms)
Factory preset	48 VDC
Adjustment accuracy	1%
Residual ripple	< 70 mV (peak-peak)
Current limitation	1.1 x $I_o$ typ.
Overload behavior	TopBoost / PowerBoost / Constant current
Operational indication	LED green (DC OK), LED red (error)

## Efficiency / power losses:

Efficiency	94.4 % typ.
Power loss $P_v$	0.8 W (stand-by) / 5.2 W (no load) / 59.2 W (rated load)

## Fuse protection:

Internal fuse	3 x T 3.2 A / 250 V
External fuse	3 x circuit breakers 6 A, 10 A, 16 A, B or C characteristic; or motor circuit breakers, setpoint: 3.2 A, setting range: 2.5 ... 4.0 A; an external DC fuse is required for the DC input voltage

Description	Item No.	Pack. Unit
Switched-mode power supply, 48 V DC / 20 A	787-847	1

## Technical Data

## Environmental requirements:

Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	5 % ... 96 % (no condensation permissible)
Derating	-5 % / K (> +45 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)

## Safety and protection:

Test voltage pri.-sec./ pri.-gr. / sec.-gr.	4.2 kV DC / 2.2 kV DC / 0.7 kV DC
Protection class	I
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage category	II
Overvoltage protection	Via varistor at primary circuit
Short circuit protection	Yes
No-load proof	Yes
Feedback voltage	Max. 63 VDC
Parallel operation	Yes
Series connection	Yes
MTBF	> 500000 h (acc. to IEC 61709)

## Connection and type of mounting:

Wire connection	Input: WAGO 231 Series Output: WAGO 831 Series Signalising: WAGO 733 Series
Cross sections	Input: 0.08 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG Output: 0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup> / 20 ... 8 AWG Signalising: 0.08 mm <sup>2</sup> ... 0.5 mm <sup>2</sup> / 28 ... 20 AWG
Strip lengths	Input: 8 ... 9 mm / 0.31 ... 0.35 in. Output: 13 ... 15 mm / 0.51 ... 0.59 in. Signalising: 5 ... 6 mm / 0.2 ... 0.24 in.
Type of mounting	DIN-rail mounting (EN 60715) in 2 positions

## Dimensions and weight:

Dimensions (mm) W x H x L	128 x 171 x 205 (incl. female connector) Length from upper-edge of DIN 35 rail
Weight	3270 g

## Standards and approvals:

Standards/specifications	EN 60950, EN 61204-3, EN 61558-2-16, UL 60950, UL 508
--------------------------	---