

# AS-i Wide Range Power Supply 8 A

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8 A AS-i power supply with integrated filter for input voltage from 195 Vac up to 500 Vac

Primary switched-mode regulator 31,2 V/8 A

LED overload indicator

LED operation indicator



### Article no. BW2276 AS-i Wide Range Power Supply 8 A

The power supply is continuous idle running protected and thus delivers a variable direct current of 0 - 8 A as output current.

Temperature indication and curve is based on the ambient temperatures from -5°C up to 40°C specified by the AS-i norm. However, the power supply is operating until an ambient temperature

of approx. 60°C with nominal load. With higher temperatures the output voltage, that is the total power is adjusted and so the power supply is protected from destruction.

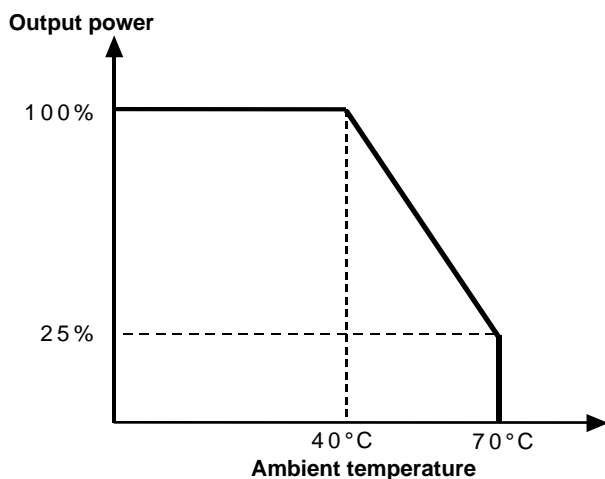
When temperature falls below 60°C, the power supply will again work in normal operation mode.

Article no.	BW2276
<b>Input</b>	
Nominal input voltage	230/400 V <sub>AC</sub> 47-63 Hz
Input voltage	195 - 500 V <sub>AC</sub>
Nominal input current	1 A bei 400 V <sub>AC</sub>
Peak inrush current	< 50 A
Power factor cos φ	0,7 capacitive at 400 V <sub>AC</sub>
PFC norm (harmonics)	EN 61 000-3-2 class A
<b>Output</b>	
Output voltage	31,2V ± 1%
DC output current	0 - 8 A
Ripple	< 60mV <sub>pp</sub> (10 ... 500 kHz)
Current limitation typical	8,5 A
Efficiency typical	88%
<b>Regulation</b>	
Line regulation	< 0,2% at U <sub>on</sub> = 400 V <sub>AC</sub> ± 15%
Load regulation	< 1% at 0 A → 8 A
Dynamics	< 2 ms at 10 ↔ 90% (I <sub>out max</sub> ), peaks < 2%
<b>Protection and monitoring</b>	
Internal fuse	T3,15 A / 500 V 6,3 x 32 mm
Current limitation	protected against continuous short circuit (see diagramm) and idle running
Overload prot.	yes
Idle running prot.	yes
Hold-up time	> 15 ms at U <sub>in</sub> = 230 V <sub>AC</sub>
<b>Safety</b>	
Output	safety extra low voltage SELV
Protective system (EN 60 529)	class I
Protection category	IP20
Leakage current	< 3,5 mA (47-63 Hz mains frequency)
<b>EMV CE-certified</b>	
Harmonics	EN 61000-3-2 class A
RFI suppression	EN 55022, EN 55011 class B
Static discharge ref. IEC 61000-4-2	ESD 8kV contact discharge, 15kV free air discharge EN 61000-4-2
Electromagnetic fields ref. IEC 61000-4-3	10 V/m EN 61000-4-3
Burst ref. IEC 61000-4-4	4 kV input, 2kV output/capacitive coupling clamp EN 61000-4-4
Surge ref. IEC 61000-4-5	4 kV unsymmetrical, 4 kV symmetrical EN 61000-4-5
Conducted disturbances	10V, 150 kHz ... 80 MHz

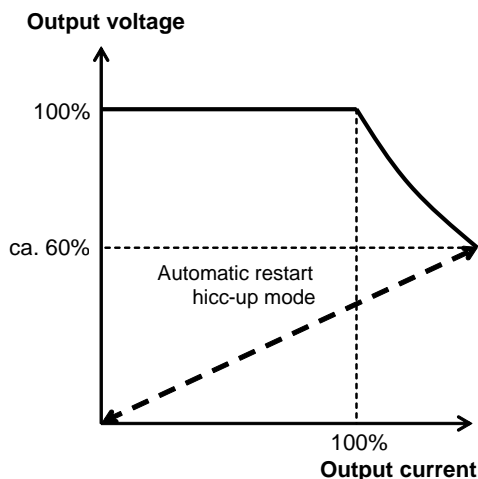
# AS-i Wide Range Power Supply 8 A

ref. IEC 61000-4-6	EN 61000-4-6
<b>Operational data</b>	
Temperature range	-10°C ... +40°C, by free convection
Power derating	2,5% / K from +40°C to max.70°C (see diagram)
Storage temperature	-25°C ... max. +85°C
<b>Displays</b>	
LED green	LED on: normal operation (0 A ... 8 A)
LED red	LED on: overload
	LED flashing: hiccup mode
<b>Mounting</b>	
Mounting position	vertical as shown in figure
Input terminals	upper side
Output terminals	lower side
<b>Assembly</b>	plastic slider
<b>Mechanics</b>	
Dimensions max. (L / W / H in mm)	70 / 141 / 151
Weight	approx. 1,2 kg

## Derating



## Current limitation curve



## Connections

## Diagram

