

AS-i Power Supply 4 A
90 V AC up to 265 V AC wide range power supply (BW1649)

AS-i Power Supply 8 A
115 V AC/230 V AC power supply with range switch (BW1997)

SELV

LED operation indicator

AS-i data decoupling

Power factor correction



BW1649



BW1997



Article no. BW1649 AS-i Power Supply 4 A, wide range power supply

Article no. BW1997 AS-i Power Supply 8 A, power supply with range switch

The primary clocked power supply is supposed for fieldbus applications, which transport energy and data via a 2-wire line at the same time.

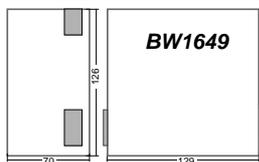
The AS-i Supply powers a fully loaded AS-i system with a maximum output current of 4.0 A or 8.0 A. The sinusoidal current consumption of the power supply prevents harmonic waves. The current is approximately in phase with the voltage by means of the passive power fac-

tor correction and leads to only a little reactive power. This guarantees a power factor $\cos\varphi \geq 0,6$.

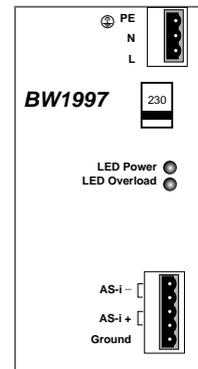
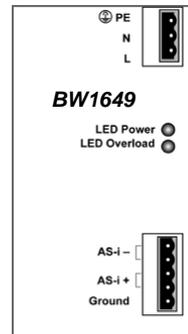
Besides the energy supply the power supply takes over also the function of data decoupling to the power source and the balancing of the two AS-i output lines in relation to the machine ground (shield).

Due to the accurate and transformic coupling the use of unscreened load lines is possible.

Article no.	BW1649	BW1997
Input		
Power factor	approx. 0,6 (according to input voltage)	
Input frequency	47 ... 63Hz	
Voltage range U_e	90 ... 265V AC	115/230V AC
Efficiency	approx. 90%	
Input current I_e	without idle current at 230V AC	
	approx. 0,6A	approx. 1,2A
Input fuse	internal fuse electronic fuse against external short circuits	
Turn on surge current	<30V	
Output		
Output voltage	29,5 ... 31,6V DC	
Remaining ripple	according to AS-i Specification	
Output current	4A	8A
Current limitation	approx. 4,5A	approx. 8,5A
Displays		
LED green (PWR)	power on (at frontside)	
LED red (Overload)	overload error (at frontside)	
Standard conformity		
Protection category (EN 60 529)	IP20	
Standards	EN 60 950	
	UL 60 950	UL 60 950 intended, AS-i certificate intended
Ambient operating temperature	-10°C ... +55°C	
Storage temperature	-40°C ... +85°C	
Dimensions (L / W / H in mm)	129 / 70 / 126	151 / 70 / 141



Connections:



Notice:

- Clamp GND must be connected with machine ground.
- Air circulation in the power supply may not be disturbed: therefore when mounting see that is at least 10 cm free space down and sufficiently free space above!