

ASi Power Supply 1,8 A

ASi Installation Power supply from 115 V_{AC} up to 250 V_{AC}

Primary switched-mode regulator 31,2 V/1,8 A

LED operation indicator



Article no. BW2255 ASi Power Supply 1,8 A

The power supply is continuous idle running protected and thus delivers a variable direct current of 0 - 1,8 A as output current.

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

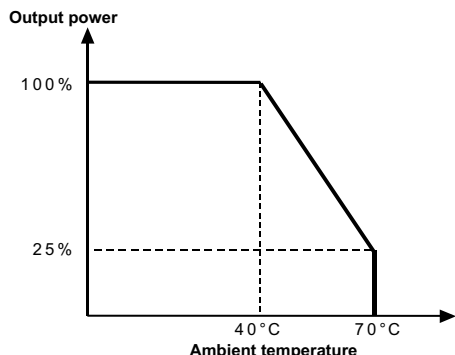
of approx. 60°C with nominal load. With higher temperatures the output voltage, that is the total power is adjusted and so the power supply is protected from destruction.

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

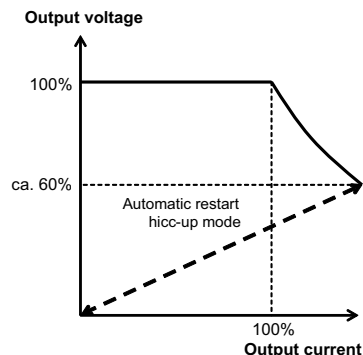
Article no	BW2255
Input	
Nominal input voltage	100 - 240 V _{AC} , 47 - 63 Hz
Input voltage	94 - 265 V _{AC}
Nominal input current	0,65 A at 230 V _{AC} ; 1,0 A bei 115 V _{AC}
Peak inrush current	$I^2t < 1,5 A^2s$
Power factor cos φ	0,4 capacitive at 230 V _{AC} ; 0,55 capacitive at 115 V _{AC}
Applicable wire size of input clamps	0,5 ... 2,5 mm ² (AWG20 ... AWG13)
Tightening torque of the input clamps	0,6 - 0,8 Nm
Insulation stripping length	10 mm
Output	
Output voltage U _{out}	31,2V ± 3%
Output current I _{out}	0 - 1,8 A
Ripple	< 50 mV _{pp} (0 ... 10 kHz); < 10 mV _{pp} (35 ... 500 kHz)
Current limitation typ.	2,3 A
Efficiency typ.	88%
Applicable wire size of output clamps	0,5 ... 2,5 mm ² (AWG20 ... AWG13)
Tightening torque of the output clamps	0,6 - 0,8 Nm
Insulation stripping length	10 mm
Regulation	
Line regulation	< 0,2% at U _{in} = 230 V _{AC} ± 15%
Load regulation	< 0,5% at 0 A → 1,8 A
Dynamics	< 2 ms at 10 ↔ 90% (I _{out max}), peaks < 2%
Protection and monitoring	
Internal fuse	T2,5 A / 250 V TR5 IEC 60 127-3/IV
Current limitation	Protected against continuous short circuit (see diagram)
Overload protection	yes
Idle running protection	yes
Hold-up time	> 65 ms bei U _{in} = 230 V _{AC} ; > 10 ms bei U _{in} = 115 V _{AC}
Safety	
Output	Safety extra low voltage SELV
Protective system (EN 60 529)	Class II
Protection category	IP20
Leakage current	< 0,25 mA (47 - 63 Hz line frequency)

EMV CE-certified	EN 55 011, EN 50 082-1, EN 61 000-6-2
RFI suppression	EN 55 022, EN 55 011 class B
Static discharge ESD ref. (IEC 61 000-4-2)	8 kV contact discharge, 15 kV free air discharge (EN 61 000-4-2)
Electromagnetic fields ref. (IEC 61 000-4-3)	10 V/m (EN 61 000-4-3)
Burst ref. (IEC 61 000-4-4)	4 kV input, 2kV output/capacitive coupling clamp (EN 61 000-4-4)
Surge ref. (IEC 61 000-4-5)	4 kV unsymmetrical (EN 61 000-4-5)
Conducted disturbances ref. (IEC 61 000-4-6)	10V, 150 kHz ... 80 MHz (EN 61 000-4-6)
ASi Certification	
ASi Certification	Pending
Operational data	
Temperature range	-10°C ... +40°C, by free convection (start from -25°C)
Power derating	2,5% / K from +40°C (see diagram)
Storage temperature	-25°C ... +85°C
Max. tolerable shock load	10g, 11 ms, acc. EN 60068-2-27
Max. tolerable vibration stress	5 ... 9 Hz 7 mm _{pp} /9 ... 500 Hz 10g, acc. EN 60068-2-6
Displays	
LED green	The green LED indicates normal operation (0 A ... 1,8 A)
Mounting	
Mounting position	vertikal as shown in figure
Input terminals	upper side
Output terminals	lower side
Assembly	Plastic slider for fastening to mounting rails DIN EN 50 022-35
Mechanics	
Dimensions max. (W / H / D):	45 / 72 / 105
Weight	approx. 0,2 kg

Derating



Current limitation curve



Connections



Dimensions (size in mm)

