

POWER SUPPLY 1-PHASE, 12 V DC MINILINE 2 SERIES

ML15.121
PULS PSU 15W 12-15VDC

- Output current of 1.3 A and 4.5 A
- Up to 87.2% efficiency
- AC and dc input voltage
- Width of 22.5 mm



PRODUCT DESCRIPTION

A compact size, light weight, simple mounting onto the DIN-rail and the utilization of only quality components are what makes the MiniLine power supplies so easy to use and install within seconds.

A rugged electrical and mechanical design as well as a high immunity against electrical disturbances on the mains provides reliable output power. This offers superior protection for equipment which is connected to the public mains network or is exposed to a critical industrial environment.

The supplementary MiniLine decoupling diode module MLY10.241 allows building of redundant systems or to protect against back-feeding voltages.

For good cooling free space of 40 mm above and 20 mm under the power supply is recommended. The sides 0 mm unless neighbouring products are a heat source, for example, a power supply unit. Leave then a 15 mm air gap.

SPECIFICATIONS

Input voltage range	Wide-range
Number of phases	1
Input voltage AC	100-240 V
Input voltage ac min	85 V AC
Input voltage ac max	264 V AC
Input voltage DC	110-300 V
Input voltage dc min	88 V DC
Input voltage dc max	375 V DC
Inrush current at 120 V ac typical	13 A
Inrush current at 230 V ac typical	26 A

Power Factor at 120 V AC, full load. Typical	0,51
Power Factor at 230 V AC, full load. Typical	0,44
Supply Frequency	50-60 ±6 %
Power Consumption At 120 V AC	0,28 A
Power Consumption At 230 V AC	0,17 A
Output voltage	12 V DC
Output voltage min	12 V DC
Output voltage max	15 V DC
Output Current	1,3 A
Effect	15 W
Power Reduction Of 60 To 70 ° C	0,4 W/°C
Ripple. max	75 mV pp
Temperature Range Without Derating From	-10 °C
Temperature Range Without Derating To	60 °C
Efficiency At 120 V AC, full load. Typical	83 %
Efficiency At 230 V AC, full load. Typical	82,5 %
Lifetime at 120 V ac, full load and +40 ° C	126000 h
Lifetime at 230 V ac, full load and +40 ° C	125000 h
MTBF (IEC 61709) 230 V AC, Maximum Load, 40 ° C	3811000 h
Width	22,5 mm
Height	75 mm
Depth	91 mm
Weight	0,13 kg
Clamp type	Screw
Series	Miniline
Approvals	ABS, CB, CE, CSA, GL, NEC Class 2, UL
Material Protection	ABS plastic
Hold-up time at 120 V AC, full load. Typical.	46 ms
Hold-up time at 230 V AC, full load. Typical.	191 ms
IP Class	IP20
Active Transient	Yes

Output voltage vs. output current, typ.

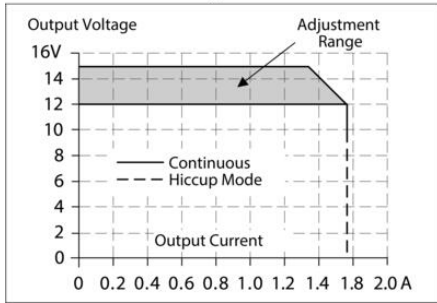


Fig. 8-1 Efficiency vs. output current at 12V, typ.

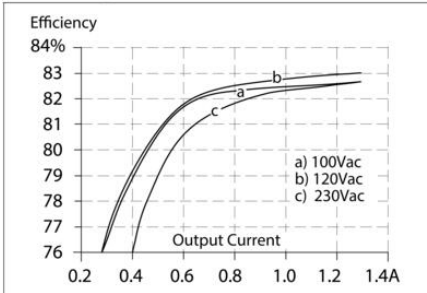


Fig. 8-2 Losses vs. output current at 12V, typ.

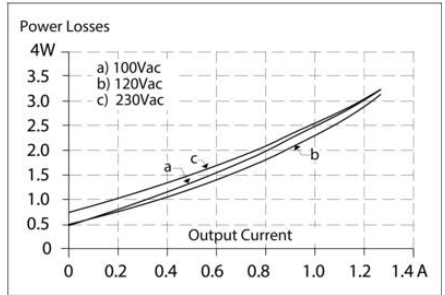


Fig. 14-1 Output power vs. ambient temp.

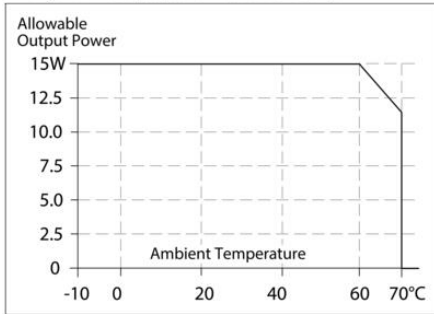


Fig. 6-2 Hiccup mode; output current at shorted output, 230Vac, typ.

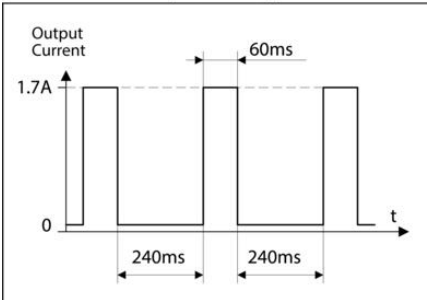


Fig. 10-1 Front side



Fig. 20-1 Front view

