POWER SUPPLY 1-PHASE, 5 V DC MINILINE SERIES

ML15.051
PULS PSU 15W 5-5.5VDC

- Output current 3 A and 5 A
- Up to 80% efficiency
- AC and dc input voltage
- Width of 22.5 mm
- 5 V, 12 V and 24 V DC options

PRODUCT DESCRIPTION

3 A model included in Pulse series Mini Line 2 is the latest development series of small power supplies with very compact dimensions and low weight. The units have high efficiency, low EMC interference and good protection against mains transients. This makes them useful in almost all electrical environments and are a great addition to the earlier Mini Line series.

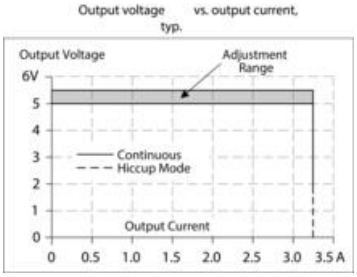
Very low quiescent current and high efficiency even at loads down to 60% makes the aggregates at a good energy and environmental choices.

5 A model is included in the earlier series Miniline having a very proven design and spring terminals for the best connection.

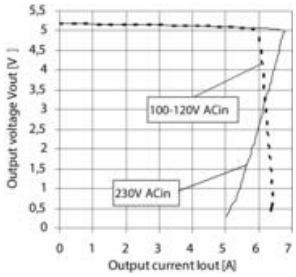
For good cooling free space of 40 mm above and 20 mm under the power supply is recommended. The sides 0 mm unless neighbouring products are a heat source, for example, a power supply unit. Leave then a 15 mm air gap

Output characteristics

ML15.051 (3 A)



ML30.101 (5A)



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
Type Power Supply	AC-DC
Output voltage	5 V DC
Output voltage min	5 V DC
Output voltage max	5.5 V DC
Output Current	3 A
Effect	15 W
Power Reduction Of 60 To 70 ° C	0.4 W/°C
Ripple. max	50 mV pp
Temperature Range Without Derating From	-10 °C
Temperature Range Without Derating To	60 °C
Efficiency At 120 V AC, full load. Typical	76.8 %
Efficiency At 230 V AC, full load. Typical	77.2 %
Lifetime at 120 V ac, full load and +40 ° C	70000 h
Lifetime at 230 V ac, full load and +40 ° C	93000 h
MTBF (IEC 61709) 230 V AC, Maximum Load, 40 ° C	2686000 h
Width	22.5 mm
Height	75 mm
Depth	91 mm
Weight	0.13 kg
Clamp type	Screw on

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.	45 ms
Hold-up time at 230 V AC, full load. Typical.	186 ms
IP Class	IP20

Output voltage vs. output current, typ.

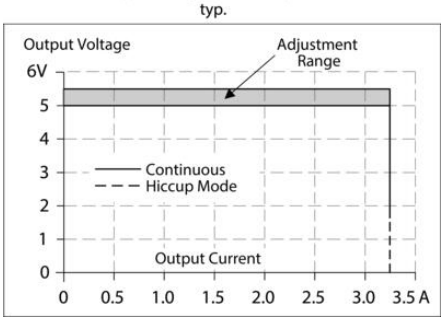


Fig. 14-1 **Output power vs. ambient temp.**

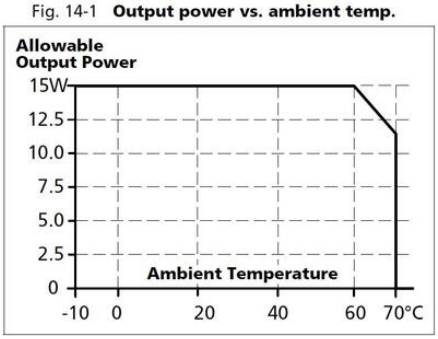


Fig. 8-1 **Efficiency vs. output current at 5V, typ.**

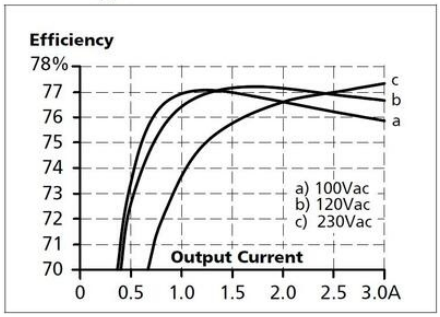


Fig. 8-2 **Losses vs. output current at 5V, typ.**

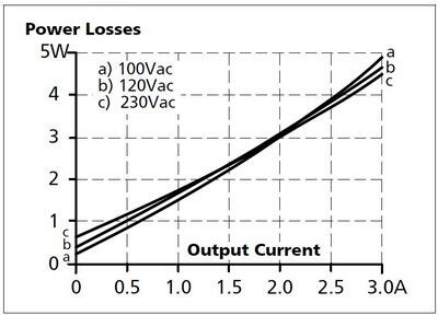


Fig. 6-2 **Hiccup mode; output current at shorted output, 230Vac, typ.**

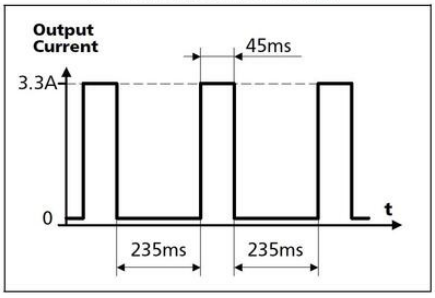


Fig. 10-1 **Front side**

Fig. 20-1 **Front view**