

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



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

nrush current at 120 V ac typical nrush current at 230 V ac typical cower Factor at 120 V AC, full load. Typical cower Factor at 230 V AC, full load. Typical cower Factor at 230 V AC, full load. Typical cower Consumption At 120 V AC cower Consumption At 230 V AC cower Consumption At 230 V AC cower Supply AC cover Supply AC cover Consumption At 230 V AC	5 A 51
nrush current at 120 V ac typical 26 Power Factor at 120 V AC, full load. Typical 27 Power Factor at 230 V AC, full load. Typical 28 Power Factor at 230 V AC, full load. Typical 29 Power Consumption At 120 V AC 20 Power Consumption At 230 V AC 20 Power Supply 20 Poutput voltage 20 Poutput voltage min 20 Poutput Voltage max 20 Poutput Current 3 Poutput Current 3 Poutput Current	3 A 5 A 51 44 0-60 ±6 % 28 A 17 A
roush current at 230 V ac typical 26 27 28 29 29 20 20 20 20 20 20 20 20	6 A 51 44 0-60 ±6 % 28 A
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Output Current 3 A	
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mect 15	
ower Reduction Of 60 To 70 ° C 0.4	
	4 W/°C
	0 mV pp 0 °C
·	
emperature Range Without Derating To 60	0°C
ifficiency At 120 V AC, full load. Typical 76.	5.8 %
fficiency At 230 V AC, full load. Typical 77.	7.2 %
ifetime at 120 V ac, full load and +40 ° C 70	0000 h
ifetime at 230 V ac, full load and +40 ° C	3000 h
ITBF (IEC 61709) 230 V AC, Maximum Load, 40 ° 266	886000 h
Vidth 22	2.5 mm
leight 75	5 mm
Depth 91	mm
Veight 0.1	
Clamp type Sc	13 kg

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

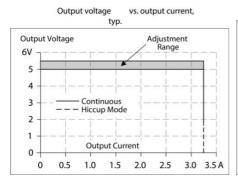


Fig. 8-1 Efficiency vs. output current at 5V, Efficiency 78% 77 76 75 74 a) 100Vac b) 120Vac c) 230Vac 73 72 71 **Output Current** 70 0.5 1.0 1.5 2.0 2.5 3.0A

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

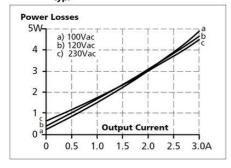


Fig. 6-2 Hiccup mode; output current at shorted output, 230Vac, typ.

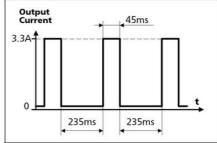


Fig. 10-1 Front side



