POWER SUPPLY 1-PHASE, 5 V DC MINILINE SERIES

ML15.051
PSU 100-240V ac I/P 5V dc 3A 15W O/P



- Output current 3 A and 5 A
- Up to 80% efficiency
- AC and dc input voltage
- Width of 22.5 mm

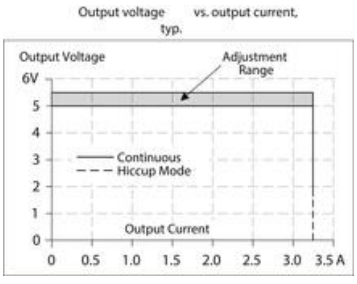
PRODUCT DESCRIPTION

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

Approvals	ABS, CB, CE, CSA, GL, NEC Class 2, UL
Depth	91
Effect	15
Efficiency At 120 V AC, full load. Typical	76.8
Efficiency At 230 V AC, full load. Typical	77.2
Height	75

Hold-up time at 120 V AC, full load. Typical.	45
Hold-up time at 230 V AC, full load. Typical.	186
Input voltage AC	100-240 V
Input voltage ac max	264
Input voltage ac min	85
Input voltage DC	110-300 V
Input voltage dc max	375
Input voltage dc min	88
Input voltage range	Wide-range
Inrush current at 120 V ac typical	13
Inrush current at 230 V ac typical	26
IP Class	IP20
Lifetime at 120 V ac, full load and +40 ° C	70000
Lifetime at 230 V ac, full load and +40 ° C	93000
Load Regulation	<100 mV (0-3 A)
MTBF (IEC 61709) 230 V AC, Maximum Load, 40 ° C	2686000
Number of phases	1
Output Current	3
Output voltage	5
Output voltage max	5.5
Output voltage min	5
Parallel Connection For Increased Power	Yes. See manufacturers datasheet or contact OEM Automatic for more details.
Power Consumption At 120 V AC	0.28
Power Consumption At 230 V AC	0.17
Power Factor at 120 V AC, full load. Typical	0.51
Power Factor at 230 V AC, full load. Typical	0.44
Power Reduction Of 60 To 70 ° C	0.4
Ripple. max	50
Series	Miniline
Series Connection For Increased Tension	Yes. See manufacturers datasheet or contact OEM Automatic for more details.
Supply Frequency	50-60 ±6 %
Temperature Range Without Derating From	-10
Temperature Range Without Derating To	60

Weight	0.13
Width	22.5

Output voltage vs. output current, typ.

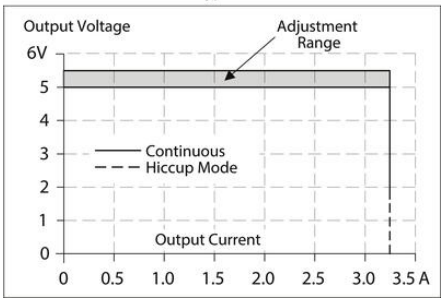


Fig. 14-1 **Output power vs. ambient temp.**

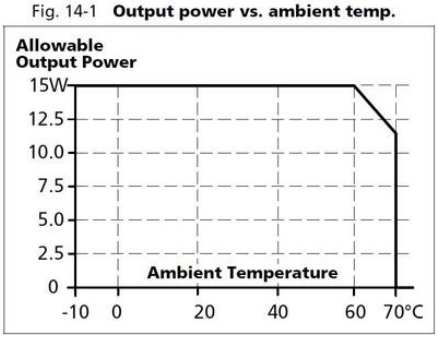


Fig. 8-1 **Efficiency vs. output current at 5V, typ.**

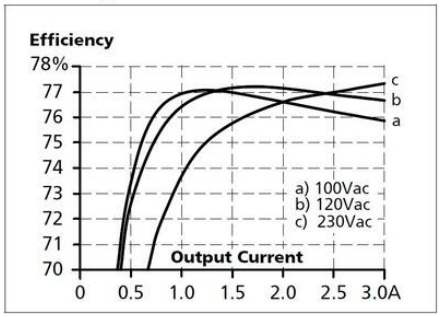


Fig. 8-2 **Losses vs. output current at 5V, typ.**

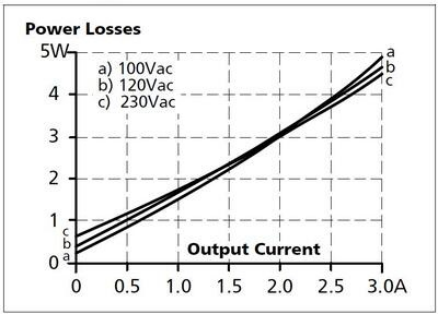


Fig. 6-2 **Hiccup mode; output current at shorted output, 230Vac, typ.**

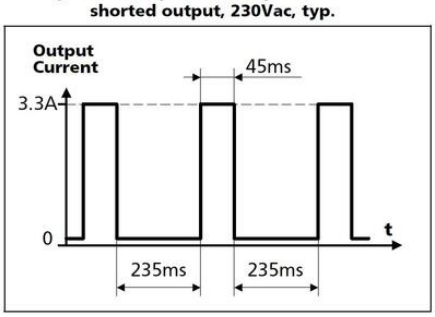


Fig. 10-1 **Front side**



Fig. 20-1 **Front view**

