

MORNSUN®

LH25-10B18 25W, AC-DC CONVERTER

LH---- is a compact size power converter offered by Mornsun for PCB mount installation applications. It features universal input voltage, taking both DC and AC input voltage, low power consumption, high efficiency, high reliability, safer isolation. It is used widely in industrial, office and civil applications.

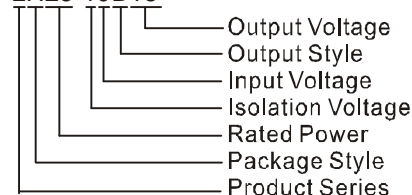


PRODUCT FEATURES

1. Universal Input :85 ~ 264VAC,50/60Hz
2. Low Ripple and Noise
3. AC and DC all in one (input from the same terminal)
4. Overload protection and short circuit protection
5. High efficiency, High power density
6. Low loss, green power
7. Multiple models available
8. industrial level specifications

MODEL SELECTION

LH25-10B18



PRODUCT PROGRAM

Model	Package	Input Voltage (AC)	Output (Vo/Io)	Ripple and Noise (Typ)	Efficiency (%) (Typ.)
LH25-10B18	70×48×23.5mm	100~240V	18V/1.25A	50mV	80%

INPUT SPECIFICATIONS

Input voltage range	100~240VAC(85~264VAC) 140~340VDC(120~370VDC)
Input current	0.6A (TYP)
External input fuse	2A/250V

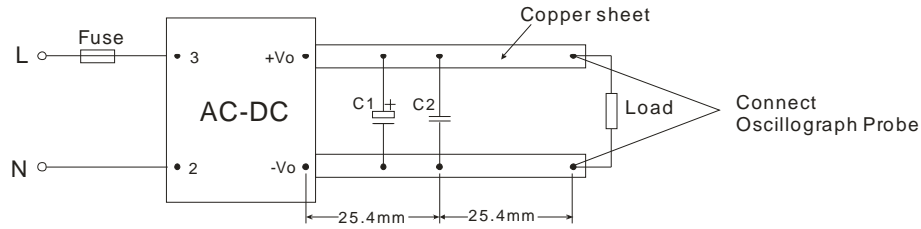
OUTPUT SPECIFICATIONS

Voltage set accuracy	±2%
Input variation	±0.5%
Load variation	±1%
Ripple & noise(p-p) (20MHz Bandwidth)	≤100mV
Short circuit protection	Continuous, and auto resume
Over current protection	≥110%Io
Note :	
1. Ripple and Noise were measured by the method of parallel lines;	
2. Unless otherwise specified, all specifications above are measured at rated input voltage and rated output load, Ta=25°C, humidity < 75%;	

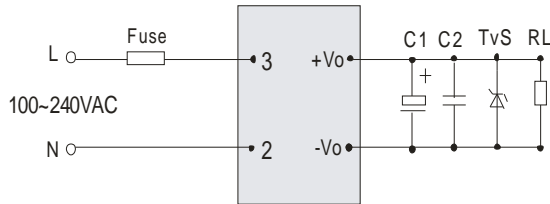
COMMON SPECIFICATIONS

Temperature ranges	--- Operating : --- Power derating (above 50°C) --- Storage: --- Case temperature:	-25°C ~ +70°C 3.75%/°C -25°C ~ +105°C +90°C (max)
Humidity (non condensing)		85% (max)
Temperature coefficient		0.02%/°C
Switching frequency		60KHz
Efficiency		80%(typ)
I/O-isolation voltage		3000VAC/1Min
Case material		UL94V-0
Install		PCB
MC compliance	--- Electrostatic discharge ESD --- RF field susceptibility --- Electrical fast transients/bursts on mainsline --- Surge	IEC/EN 61000-4-2 level 3 6KV/8KV IEC/EN 61000-4-3 IEC/EN 61000-4-4 level 3 2KV IEC/EN 61000-4-5 level 3 1KV / 2KV
Safety standards		IEC60950,EN60950,UL60950
Safety Class		CLASS I
MTBF		>300,000h @25°C

PARALLEL LINES MEASURE



TYPICAL APPLICATIONS

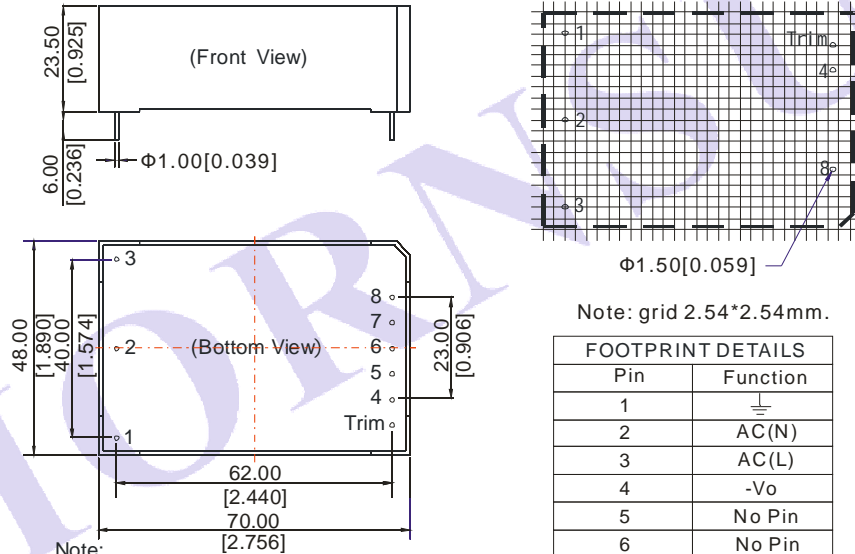


EXTERNAL CAPACITORS TYPICAL VALUE

C1	C2	FUSE
330 μ F/25V	0.1 μ F/50V (ceramic capacitor)	2A/250V

Note:
Output filtering capacitors C1 is electrolytic capacitors. It is recommended to use high frequency and low impedance electrolytic capacitors. For capacitance and current of capacitor please refer to manufacture's datasheet. Voltage derating of capacitor should be 80% or above. C2 is used to filter high frequency noise. TVS is recommended component to protect post-circuits (if converter fails).

OUTLINE AND DIMENSIONS

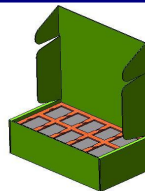


Note:
Unit:mm[inch]
Pin diameter tolerances: ± 0.10 mm[± 0.004 inch]
General tolerances: ± 0.50 mm[± 0.020 inch]

FOOTPRINT DETAILS	
Pin	Function
1	⊥
2	AC(N)
3	AC(L)
4	-Vo
5	No Pin
6	No Pin
7	No Pin
8	+Vo
Trim	Trim

PACKAGE DIAGRAM

LH25-10B18



Inner packaging box dimensions: L*W*H=355*192*93mm
Outer package box dimensions: L*W*H=405*380*305mm

Package quantity: 20pcs
Package quantity: 120pcs

MORNSUN Science & Technology Co.,Ltd.

Address: No. 5, Kehui St. 1, Kehui development center, Science Ave., Guangzhou Science City, Luogang district, Guangzhou, P.R.China.

Tel: 86-20-38601850

Fax: 86-20-38601272

<http://www.mornsun-power.com>

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Specifications subject to change without notice.
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