

Power Requirements

The LabelWriter 450 series printers are normally supplied with an external, universal (100 – 240 VAC) AC power adapter. For OEM applications, a DC voltage can also be supplied to the main printed circuit board (PCB) of the printer using the JP2 connector.

Note: The printers have been tested and certified for EMC and safety requirements using the supplied AC adapter. Supplying a non-DYMO power source may change the EMC and safety certifications.

Input power is variable based on the amount of information printed and the duty cycle of the label printing. The ratings below are based on normal printer usage, except where specified.

The printer driver (print commands from the host computer) controls some printing parameters and will change maximum power usage.

AC Adapter

DYMO part number	93447 (60 W)
Input voltage	100 – 240 VAC, 50/60 Hz, 1.6 Amps
Output voltage	24 VDC, 2.5Amps

PCB Input Power

All LabelWriter 450 series printers have an input voltage of 24 VDC, +/- 5%. Their power requirements are as follows.

LabelWriter 450 and 450 Turbo Printers

Input current (idle)	0.040 Amps
Input current (typical)	1.75 Amps
Input current (max.)	3.3 Amps based on printing a shipping label (30256) with a maximum-size filled rectangle, after print head temperature increases above ambient temperature. At nominal print head temperature: 2.7 A In graphics mode: 1.6 A

LabelWriter 450 Twin Turbo Printer

Input current (idle)	0.026 Amps
Input current (typical)	0.975 Amps (text only)
Input current (max.)	3.3 Amps based on printing a shipping label (30256) with a maximum-size filled rectangle, after print head temperature increases above ambient temperature. At nominal print head temperature: 2.9 A In graphics mode: 1.6 A

LabelWriter 450 Duo Printer

Input current (idle)	0.052 Amps
Input current (typical)	1.1 Amps (text only)
Input current (max.)	3.3 Amps based on printing a shipping label (30256) with a maximum-size filled rectangle, after print head temperature increases above ambient temperature. At nominal print head temperature: 3.0 A

Note: The input current is ramped up as the 24 V is applied to the input to limit in-rush current (there is a 2200 μ F filter capacitor at the input). After power is removed, allow seven seconds for this circuit to reset before re-applying the input voltage.

Connector (JP2)

DC jack, 5.5 mm O.D. x 2.5 mm I.D. Center Positive