



KLS30F

30 WATT OPEN FRAME POWER SUPPLY



FEATURES

- ✔ **LOW COST**
- ✔ **UNIVERSAL INPUT**
- ✔ **HIGH RELIABILITY**
- ✔ **OVERVOLTAGE PROTECTION**
- ✔ **OVERCURRENT PROTECTION**
- ✔ **SUPER SMALL SIZE**
- ✔ **HIGH EFFICIENCY**
- ✔ **COMPACT LOW PROFILE PACKAGE**
- ✔ **TWO YEAR WARRANTY**

SAFETIES / EMI



ELECTRICAL SPECIFICATIONS

All specifications are typical at nominal input, full load.

INPUT SPECIFICATIONS

Input Voltage.....	85-264VAC
Input Frequency.....	47-63 Hz
Input Current (100V).....	0.2A (5V, 12V, 15V, 24V)
Inrush Current (100V, 50Hz).....	20A (Cold Start)

OUTPUT SPECIFICATIONS

Output Voltage.....	See Chart
Output Voltage Adjustment Range.....	± 10% (Optional)
Over-Voltage Protection.....	Zener Limiter
Line Regulation.....	0.5%
Over-Current Protection.....	Automatic Recovery
Load Regulation.....	1.0%
Hold-Up Time.....	20 mS
Rise Time.....	200mS max. (At 25°C nominal input / output)
Drift.....	0.5% + 15mv
Leakage Current.....	0.5 mA or less
Ripple and Noise.....	5% + 50 mV

GENERAL SPECIFICATIONS

MTBF.....	100,000 hrs.
Isolation Voltage	
Primary to Secondary.....	3000 VAC
Primary to FG.....	3000 VAC
Secondary to FG.....	500 VAC
Isolation Resistance.....	FG 50 MΩ (DC 500V)

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	0°-60°C
	Derates linearly 2.5%/°C after 50°C
Cooling.....	Convection
Temperature Coefficient.....	0.02% / °C
Storage Temperature.....	-20°C - +75 °C
Humidity.....	30% - 85% Rh (Non-condensing)

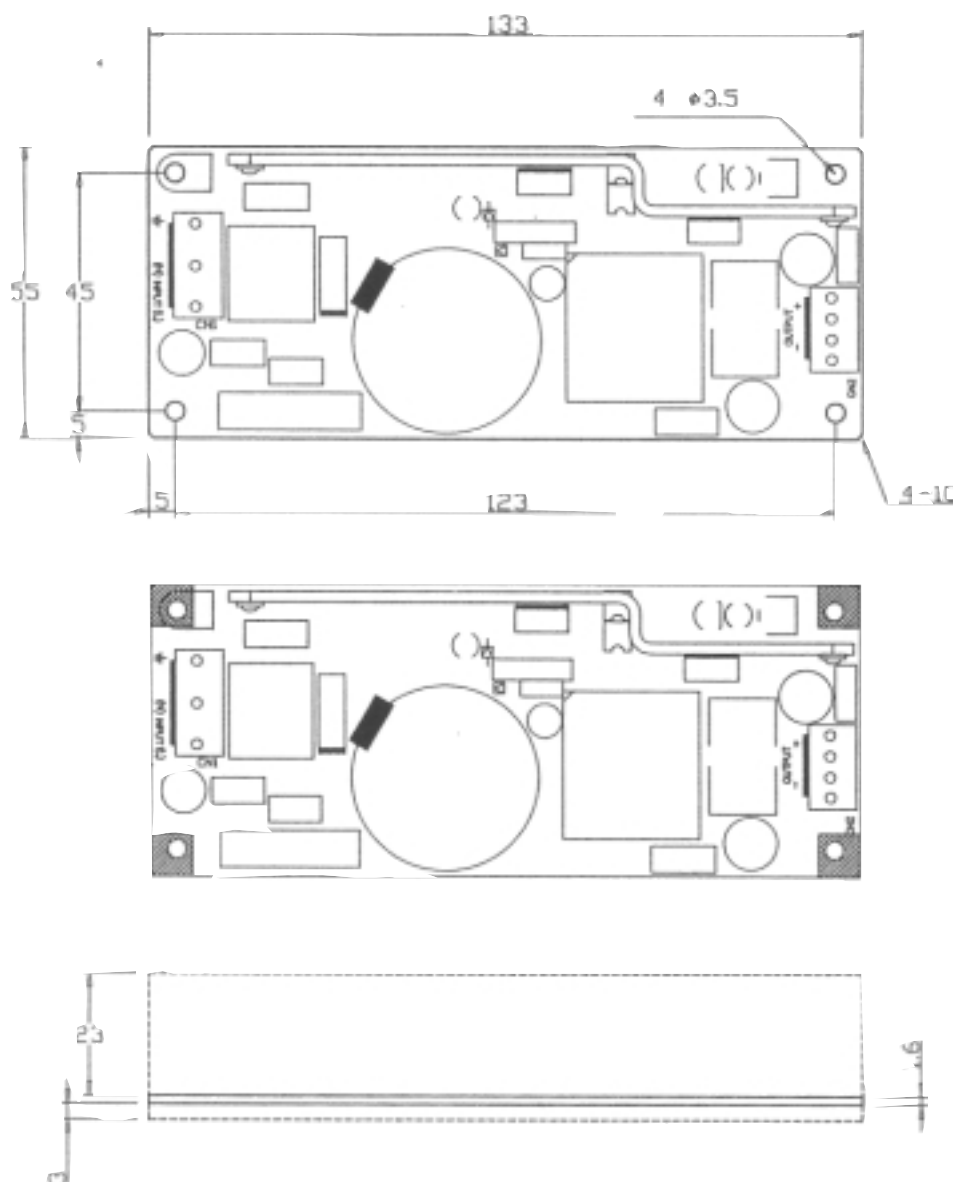
PHYSICAL SPECIFICATIONS

Open Frame, Glass Epoxy PC Board

Series

MODEL No.	INPUT RATING	OUTPUT VOLTAGE	OUTPUT CURRENT	EFFICIENCY AT 100% LOAD (TYP)
KLS30F-05S	100-230V 50-60HZ	5 VDC	6.0 A	70%
KLS30F-12S	100-230V 50-60HZ	12 VDC	2.5 A	70%
KLS30F-15S	100-230V 50-60HZ	15 VDC	2.0 A	71%
KLS30F-24S	100-230V 50-60HZ	24 VDC	1.3 A	72%

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NOTE:

All specifications typical and nominal / full load and 25°C unless otherwise noted.
 Avoid sustained operation in overload or dead short conditions.
 Specifications subject to changes without notice.

• Dimensions in mm