

DATA SHEET, HALOGEN LAMP CONVERTER WITH DIMMING FUNCTION

TYPE:	TM 78901
--------------	-----------------

HALOGEN LAMPS:	12V, MAX 40 W TOTAL POWER
-----------------------	---------------------------

ELECTRICAL CHARACTERISTICS:

INPUT VOLTAGE:	NOMINAL:	110 VDC
	RANGE:	77 ... 138 VDC
OUTPUT VOLTAGE:		MAX 11,2 VAC $\pm 0,3$ V
INPUT CURRENT, $\pm 10\%$:	10 W:	MAX 90 mA
	40 W:	MAX 330 mA
	WITHOUT LAMPS:	< 20 mA ($U_{in} = 121$ VDC)
OPERATION FREQUENCY:		30 ... 54 kHz
LIGHT OUTPUT ADJUSTMENT RANGE:		2 ... 100%
EFFICIENCY:		> 85%

MECHANICAL CHARACTERISTICS:

DIMENSIONS (WxHxL):	47 x 32 x 252 mm
WEIGHT:	195 g
MATERIAL OF THE PC-BOARD:	FR-4
MATERIAL OF THE CASING:	ALUMINIUM
CONNECTORS:	SPRING CLAMP CONNECTORS 2,5 mm ²

ENVIRONMENTAL CONDITIONS:

AMBIENT TEMPERATURE RANGE:	OPERATION:	-25°C ... +70°C
	STORAGE:	-40°C ... +70°C

PROTECTIONS:

AGAINST INPUT VOLTAGE POLARITY REVERSAL
AGAINST LOAD SHORT CIRCUIT

EMC:

ACCORDING TO : ENV 50121-3-2
ACCORDING TO : 89/336/EEC: EN55015

SPECIAL FEATURES:

STEPLESS DIMMING
GENTLE START™
POTENTIAL FREE CONTROL INPUT: Halogen lamp dimming occurs with control voltage (0 ... 10Vdc) or with potentiometer (50kohm/N, where N is number of devices) connected between pins C+ and C-. Because this input acts like a current source (it feeds current) control unit must be able to sink that current (control current for one device is $10\text{ V}/50\text{ kohm} = 0.2\text{ mA}$) . Control input current is internally polarized and strongly averaged so it is very insensitive against disturbances in control wires.
ALL TEKNOWARE CONVERTERS ARE PROTECTED AGAINST REVERSE INPUT VOLTAGE POLARITY AND ALL LAMP FAULT CONDITIONS

WRITTEN BY:	24.09.1998 JT	UPDATED BY:	30.04.2001 LT
CHECKED BY:		CHECKED BY:	

We reserve the right to make modifications without prior notice