

POWER: 200 WATT

HIGH RELIABILITY

SMT - ON CERAMIC TECHNOLOGY

ASSEMBLING ACCORDING TO ANSI/IPC-A-610

METAL CASE

EXTENDED TEMPERATURE RANGE

CONTINUOUS SHORT CIRCUIT PROTECTION

AUTOMATIC LOW VOLTAGE SWITCH OFF

OVER TEMPERATUR PROTECTION WITH AUTOMATIC RESTART

100% BURN-IN & PARAMETER TEST

REMOTE ON/OFF CONTROL (OPTIONAL)

SAFETY: EN60950-1:2001 (for line voltage <75VDC) CLASS 3

EMC: EN61000-4-2 (B), EN61000-4-3 (A), EN61000-4-4 (B)

EN61000-4-5 (500V), EN61000-4-6 (A), EN61000-4-11 (B)

EMI: EN55022-B (radiated)

DESIGN TO MEET UL

DC/DC CONVERTER NS3690

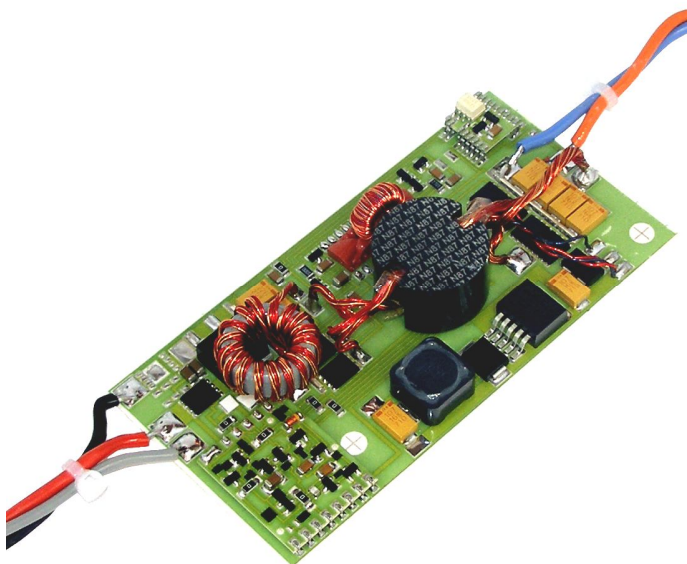
PRELIMINARY DATA SHEET

24/01/2011

REVISION: 2



CONSTRUCTION



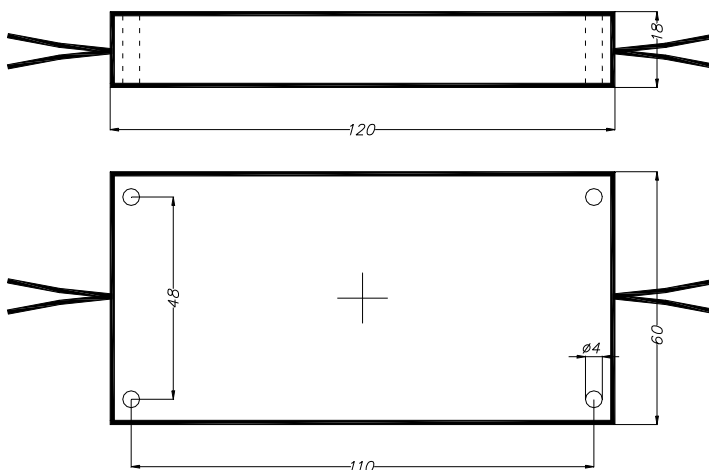
ELECTRICAL SPECIFICATIONS (1)

NOMINAL INPUT VOLTAGE	24V DC
INPUT VOLTAGE RANGE	18 - 36V DC
OUTPUT VOLTAGE	+12V
OUTPUT VOLTAGE ACCURACY	±2%
OUTPUT POWER	200W
OUTPUT RIPPLE (20MHz)	<150mVpp
REGULATION LINE (2)	±1%
REGULATION LOAD (3)	±1%
ISOLATION I/O	1500VDC
ISOLATION I/CASE	1000VDC
ISOLATION O/CASE	500VDC
EFFICIENCY	ca 88%
TEMPERATURE COEFFICIENT	0,02%/°C
SHORT CIRCUIT PROTECTION	CURRENT LIMITING
OVERLOAD PROTECTION	THERMAL SHUTDOWN
OPERATING TEMPERATURE RANGE (CASE) (RH:0-85%)	-40°C ÷ +85°C
STORAGE TEMPERATURE RANGE (RH:0-85%)	-40°C ÷ +105°C

- (1) Typical specifications at $T_a = 25^\circ\text{C}$ under normal line voltage and full load conditions, unless otherwise noted.
(2) $U_i \text{ min} \div U_i \text{ max}$
(3) $I_o = 0\% \div 100\%$

DIMENSION DRAWING

CONNECTIONS	COLOUR
+ INPUT	RED
- INPUT	BLACK
ON/OFF (OPTIONAL)	GREEN
+ OUTPUT	ORANGE
- OUTPUT	BLUE



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ISO 9001 certified