

5 to 6 Watt

24 Pin DIL Package V 4:1 Input Range Suffix „H6“



- o Wide Input Range
- o Pi Input Filter
- o Regulated Output
- o Single & Dual Output
- o Continuous Short Circuit Protection
- o 6000 VDC I/O-Isolation
- o Reinforced Insulation Rated For Working Voltage 300 VAC
- o CE Mark Meets 2004/108/EC



MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT		INPUT CURRENT		%EFF ²⁾	CAPACITOR LOAD MAX.
			MIN. ¹⁾	MAX.	NO LOAD	FULL LOAD		
5VRS24X5LC-H6	9-36 VDC	5 VDC	100 mA	1000 mA	10 mA	260 mA	80	1000 µF
6VRS24X12LC-H6		12 VDC	50 mA	500 mA		295 mA	85	500 µF
6VRD24X12LC-H6		±12 VDC	25 mA	±250 mA	15 mA	298 mA	84	250 µF
6VRD24X15LC-H6		±15 VDC	20 mA	±200 mA				200 µF
5VRS48X5LC-H6	18-72 VDC	5 VDC	100 mA	1000 mA	5 mA	130 mA	80	1000 µF
6VRS48X12LC-H6		12 VDC	50 mA	500 mA		149 mA	84	500 µF
6VRD48X12LC-H6		±12 VDC	25 mA	±250 mA	8 mA	150 mA	83	250 µF
6VRD48X15LC-H6		±15 VDC	20 mA	±200 mA				149 mA

1. Operation under minimum load will not damage the converter, but it may not meet all specifications.
2. Measured at nominal input voltage.

SPECIFICATIONS

All Specifications Typical At Nominal Line, Full Load, and 25°C Unless Otherwise Noted

INPUT SPECIFICATIONS		
Input Voltage Range		4:1
Under Voltage Protection	24 Vin power up	8.8 V
	24 Vin power down	8 V
	48 Vin power up	17 V
	48 Vin power down	16 V
Leakage Current		5 µA max.
Input Filter		Pi Type
Input Surge (100 ms max.)	24 Vin	50 V max.
	48 Vin	100 V max.

OUTPUT SPECIFICATIONS		
Voltage Accuracy		±1.5% max.
Voltage Balance (Dual Output)		±2.0% max.
Transient Response: 75% to 100% Step Load Change	Error Band	±6% Vout nominal
	Recovery Time	<500 µs
Temperature Coefficient		±0.05%/°C
Ripple and Noise, 20MHz BW (with 0.1 µF MLCC)	5V	100 mV p-p max.
	12V, 15V	1% p-p max.
Short Circuit Protection		Continuous
Line Regulation ¹⁾		±0.5% max.
Load Regulation	Single ²⁾	±0.5% max.
	Dual ³⁾	±1.0% max.
Cross Regulation (Dual Output)	Load cross variation 25%/100%	±5% max.
Start up Time		1.5 ms

1. Measured From High Line to Low Line
2. Measured From Full Load to 10% Load
3. Measured From Full Load to 25% Load

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GENERAL SPECIFICATION	
Efficiency	see table
Isolation Voltage	6000 VDC min.
Isolation Resistance	1000 Mohms min.
Isolation Capacitance	40 pF
Reinforced Insulation	Creepage Distances 8 mm min. Air Clearances 8 mm min.
Switching Frequency	100 kHz min.
Derating, above +71°C	Linearly to Zero power at +100°C
Operating Ambient Temperature	-40°C to +71°C
Case Temperature ⁴⁾	+100°C max.
Storage Temperature	-40°C to +100°C
EMI	Conductive EMI Meet EN55022 Class A
Humidity	95% RH max. Non condensing
MTBF (MIL-STD-217-F, GB, 25°C, Full Load)	T.B.D. hrs
Dimensions	1.25x0.8x0.4 Inches (31.8x20.3x10.2 mm)
Case Material	Non-Conductive Black Plastic

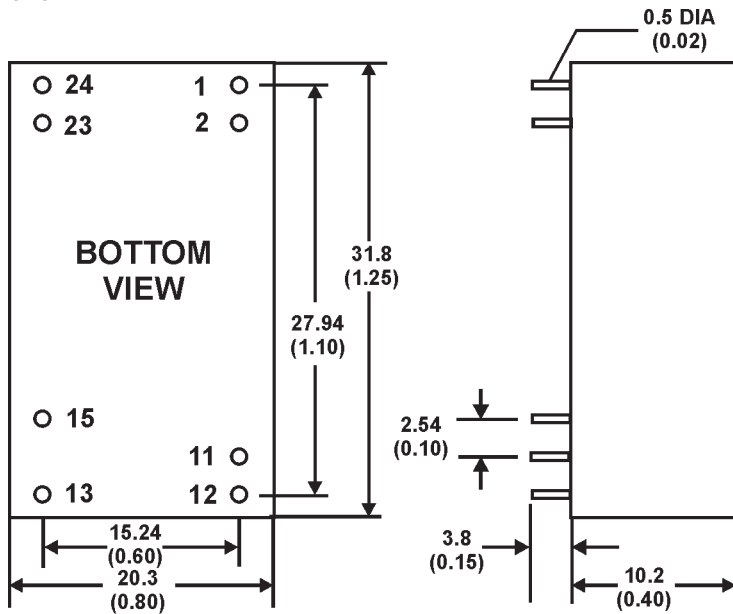
4. Maximum case temperature under any operating condition should not be exceeded +100°C.

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MECHANICAL SPECIFICATIONS

CASE "V"



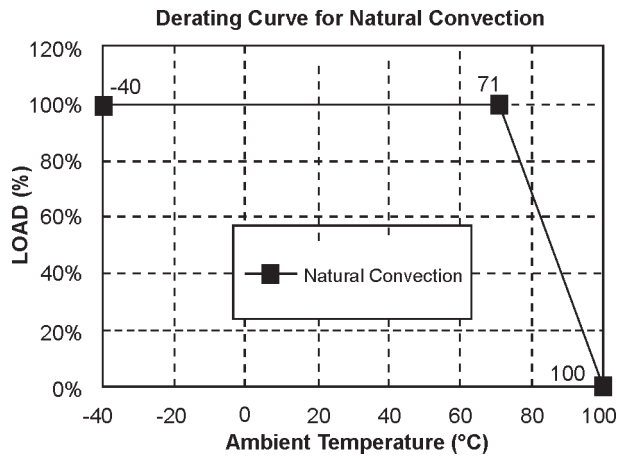
PIN CONNECTIONS		
PIN	SINGLE	DUAL
1	+INPUT	+INPUT
2	+INPUT	+INPUT
11	NO PIN	COMMON
12	-OUTPUT	NO PIN
13	+OUTPUT	-OUTPUT
15	NO PIN	+OUTPUT
23	-INPUT	-INPUT
24	-INPUT	-INPUT

All Dimensions in mm (Inches)

Tolerances: Millimeters: x.x=0.5, X.XX=0.25

Inches: x.xx=0.02, x.xxx=0.010

DIAGRAMS



NOTICE:

The information in this document has been carefully checked. However, no responsibility is assumed for inaccuracies! Specifications can be changed without notice. The latest and most complete information can be found on our website.