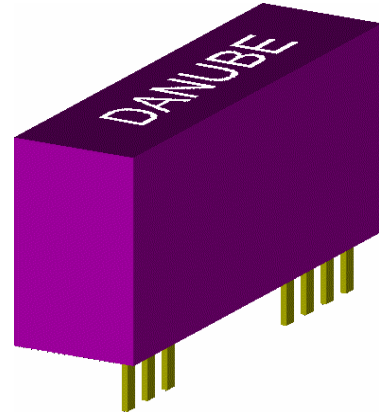


FEATURES

- 1000VDC ISOLATION
- HIGH EFFICIENCY
- INTERNAL FILTERING
- LOW COST
- NO EXTERNAL COMPONENTS REQUIRED
- UP TO 1.8W UNREGULATED OUTPUT POWER
- DUAL IN LINE PACKAGE
- 100% BURNED IN
- LOW NOISE
- MTBF > 850,000 HOURS



● OUTPUT SPECIFICATIONS

Voltage Setpoint Accuracy	+/-2% max
Temperature Coefficient	+/-0.03%/°C
Ripple & Noise (20MHz BW)	100mVp-p max
Line Regulation ¹	+/-1.2% max
Load Regulation ²	+/-8% max
Short Circuit Protection	Momentary

● ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-25°C to +71°C
Storage Temperature	-55°C to +125°C
Cooling	Free-Air Convection

ALL SPECIFICATIONS TYPICAL AT NOMINAL LINE, FULL LOAD , AND 25 °C UNLESS OTHERWISE NOTED.

● INPUT SPECIFICATIONS

Input Voltage Range	+/-10% max
Input Filter	Capacitor Type

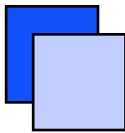
● GENERAL SPECIFICATIONS

Efficiency	77%-85%
Isolation Voltage ³	1000 VDC min
Isolation Resistance	10 ⁹ ohms min
Switching Frequency	25 KHz min
Isolation Capacitance	80pF max
MTBF	850,000 Hours
Weight	10.1g Typ
Case Material	Non-Conductive Plastic
Case Size	32.5mm*17mm*10.2mm

¹ Line Regulation is for a 1.0% change in input Voltage.

² Load Regulation is for output load current change from 20% to 100%.

³ For 60 seconds



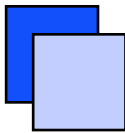
● SELECTION GUIDE 1.8W OUTPUT

MODEL NUMBER	INPUT VOLTAGE (VDC)	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (mA)	INPUT CURRENT(mA)		EFF (%)	ISOLATION (VDC)
				FULL LOAD	NO LOAD		
				HUS-0505	5		
HUS-0509 ⁴	5	9	200	476	40	77	1000
HUS-0512	5	12	150	450	38	80	1000
HUS-0515	5	15	120	444	38	81	1000
HUS-1205	12	5	360	192	18	78	1000
HUS-1209 ⁵	12	9	200	185	18	81	1000
HUS-1212	12	12	150	185	16	81	1000
HUS-1215	12	15	120	182	16	82	1000
HUS-2405	24	5	360	95	9	79	1000
HUS-2409	24	9	200	92	9	82	1000
HUS-2412	24	12	150	90	9	83	1000
HUS-2415	24	15	120	88	8	85	1000
HUS-4805	48	5	360	48	5	78	1000
HUS-4809	48	9	200	46	5	81	1000
HUS-4812	48	12	150	46	5	81	1000
HUS-4815	48	15	120	45	5	82	1000

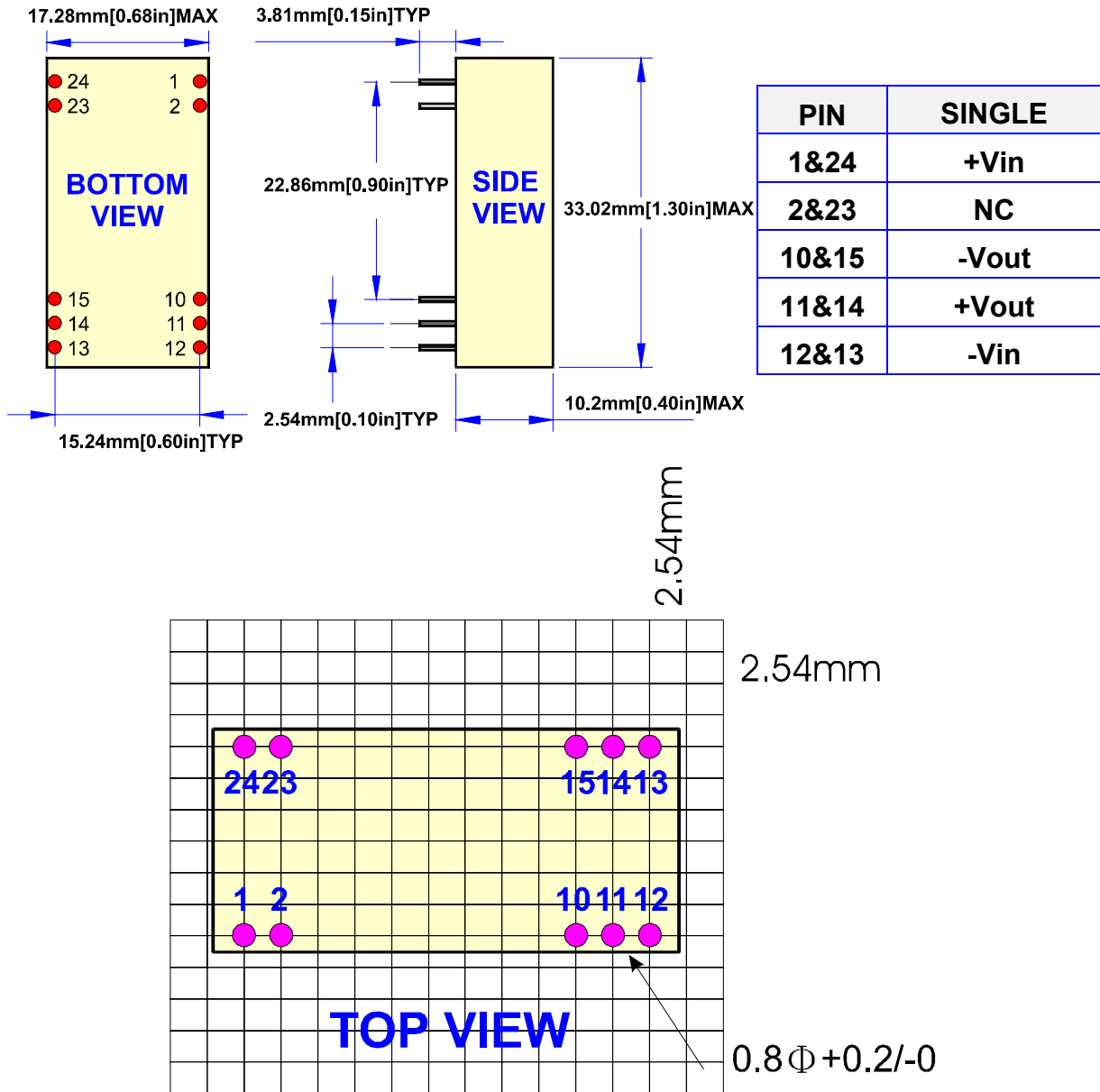
Note: Other input to output voltages may be available. Please contact factory.

⁴For LAN DC-DC CONVERTER

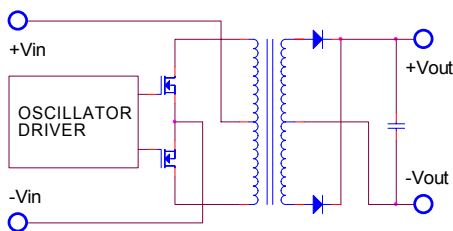
⁵For LAN DC-DC CONVERTER



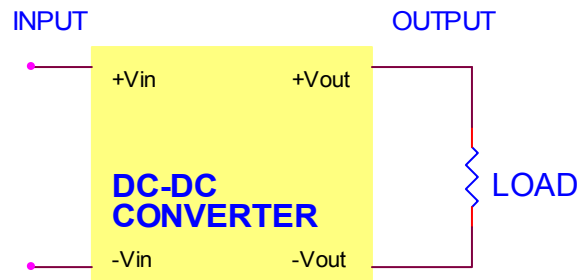
MECHANICAL DIMENSIONS & RECOMMENDED FOOTPRINT DETAILS

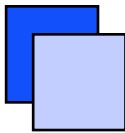


SIMPLIFIED SCHEMATIC



TYPICAL APPLICATIONS

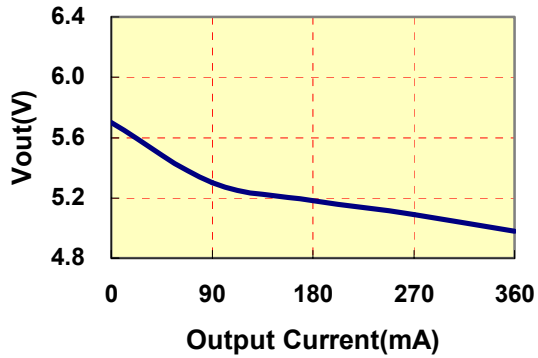




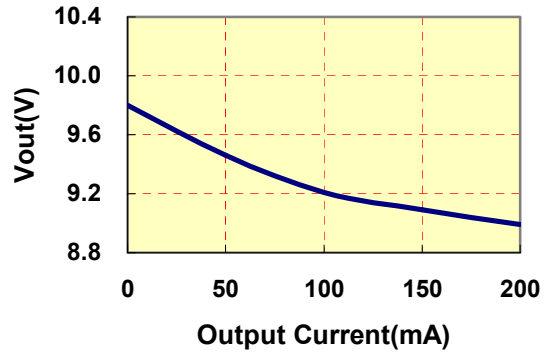
● TYPICAL PERFORMANCE CUREVES

Specifications typical at $t_a=25^{\circ}\text{C}$, nominal input voltage , rated output current unless otherwise specified.

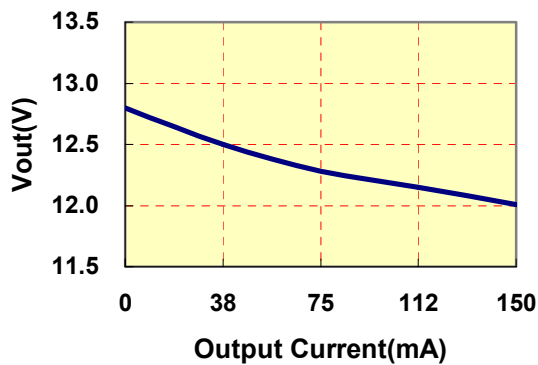
VOUT VS LOAD(5Vout Models)



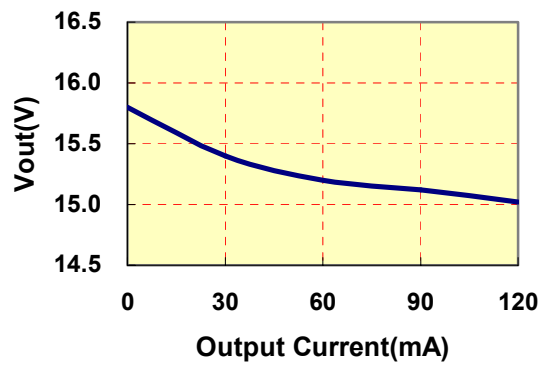
VOUT VS LOAD(9Vout Models)



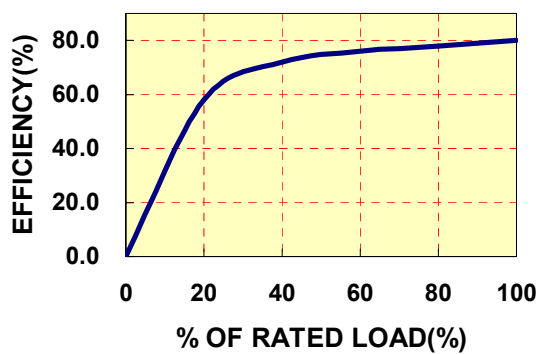
VOUT VS LOAD(12Vout Models)



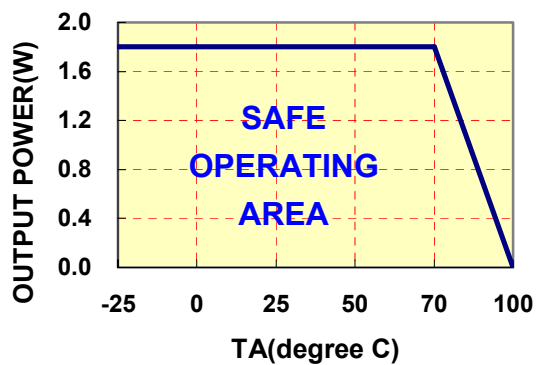
VOUT VS LOAD(15Vout Models)

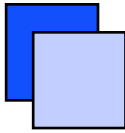


EFFICIENCY VS LOAD



DERATING CURVE





HU SERIES APPLICATION NOTES:

EXTERNAL CAPACITANCE REQUIREMENTS:

Output filtering is required for operation. A minimum of 10uF is needed. Output capacitance may be increased for additional filtering, not to exceed 220uF.

To meet the reflected ripple requirements of the converter, an input impedance of less than 0.5 ohm from DC to 250KHz is required.

Negative Outputs:

A negative output voltage may be obtained by connecting the +OUT to circuit ground and connecting –OUT as the negative output.

FOR MORE INFORMATION CALL:

Power Systems – The Power Solution

Ilfeld-Auenstein (Germany) Dörnet 8 Tel: + 49 / 70 62 / 67 59 – 6 Fax: + 49 / 70 62 / 67 59 -80

E-mail: Info@Power-Systems.de Home Page: www.Power-Systems.de
