



FEATURES

- 5, 12, 24 and 48 Volt Inputs
- Industry-Standard Pin Out
- Single and Dual Outputs
- Overcurrent Protection
- Overvoltage Protection
- UL1950 Recognized
- Low Output Noise
- High Efficiency
- Meets FCC Level B Radiated Limits
- MTBF > 5,460,000 Hours (40°C)

SPECIFICATIONS

INPUT

Voltage/Current	See Model Selection Table
Max. Input Current	0.4 A
(V _{in} =0 - 72 VDC)	
Max. Inrush Transient	1.0 A ² s
Reflected Ripple Current	
5V/12V Input	45 mA (peak-to-peak)
24V/48V Input	40 mA (peak-to-peak)
Ripple Rejection	50 dB

OUTPUT

Output Voltage	See Model Selection Table
Set Point	±2.0%
Regulation	
Line	
5V/12V Input	0.02%
24V/48V Input	0.01%
Load	0.05% (typ.)
Cross (Dual output)	5%
Ripple (RMS)	
5V	
5V/12V Input	5 mV
24V/48V Input	10 mV
12V	
5V/12V Input	5 mV
24V/48V Input	15 mV
±12V/±15V	
5V/12V Input	15 mV
24V/48V Input	50 mV
Noise (peak-to-peak)	
5V	
5V/12V Input	15 mV
24V/48V Input	50 mV
12V	
5V/12V Input	20 mV
24V/48V Input	50 mV
±12V/±15V	
5V/12V Input	60 mV
24V/48V Input	100 mV
(measured with a 20 MHz bandwidth)	

Temperature Drift	±0.01%/°C
Overvoltage Protection	120%
Current Limit Inception	190%
Short Circuit Current	
5V/12V Input	400%
24V/48V Input	200%
Efficiency	See Model Selection Table
Isolation	
Voltage	500 VDC
Capacitance	1200 pf
Resistance	>10 MΩ

ENVIRONMENTAL

Operating Ambient Temp.	
5V/12V Input	-10 to +70°C
24V/48V Input	-40 to +85°C
Storage Temp.	-40 to +100°C

MODEL SPECIFICATIONS

Output		Input Range			
Volts	Amps	5 (4.5-5.5) VDC		12 (10-15) VDC	
		Model	Effic.	Model	Effic.
5.0 VDC	0-1.0A	HUH05001	73%	HUA05001	77%
12.0 VDC	0-0.42A	HUH120R4	75%	HUA120R4	78%
15.0 VDC	0-0.33A	HUH150R3	75%	HUA150R3	78%
±12.0 VDC	0-0.21A	HUH005/01	75%	HUA005/01	78%
±15.0 VDC	0-0.17A	HUH005/02	75%	HUA005/02	78%

Output		Input Range			
Volts	Amps	24 (18-36) VDC		48 (36-72) VDC	
		Model	Effic.	Model	Effic.
5.0 VDC	0-1.0A	HUE05001	80%	HUW05001	80%
12.0 VDC	0-0.42A	HUE120R4	82%	HUW120R4	82%
15.0 VDC	0-0.33A	HUE150R3	82%	HUW150R3	82%
±12.0 VDC	0-0.21A	HUE005/01	82%	HUW005/01	82%
±15.0 VDC	0-0.17A	HUE005/02	82%	HUW005/02	82%

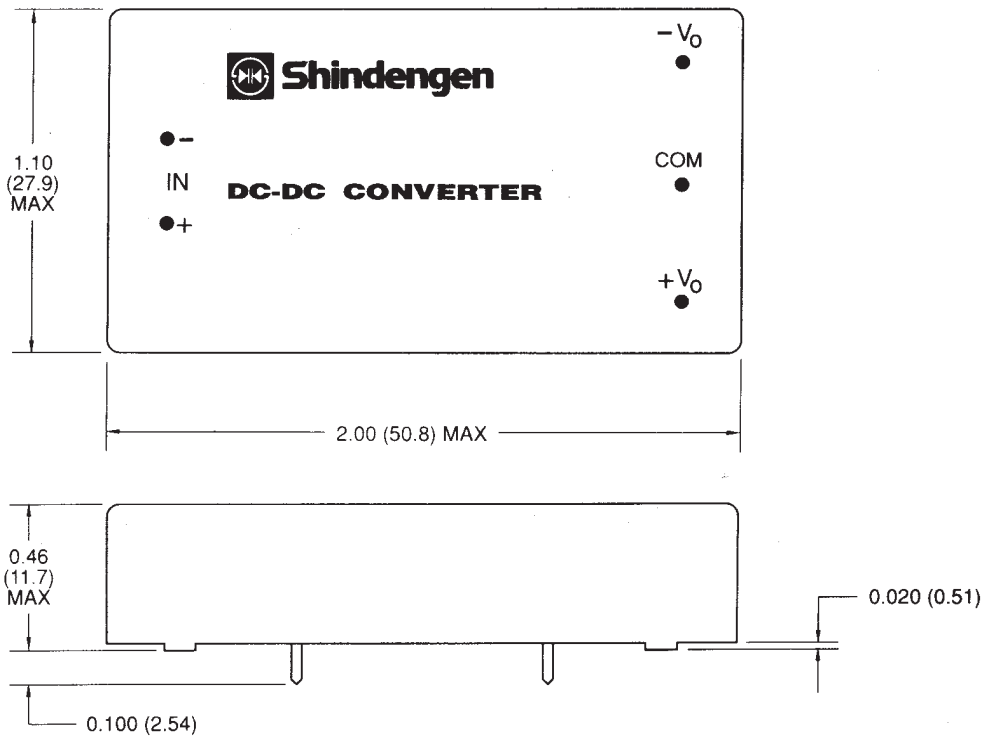
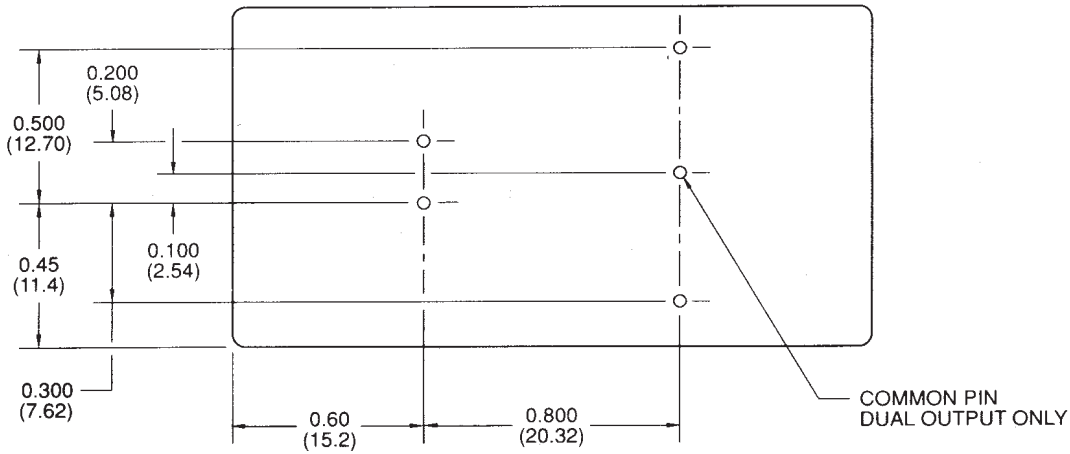
Consult factory for other input/output voltage combinations.

MECHANICAL SPECIFICATIONS

Size (W x D x H) 2.00 x 1.10 x 0.46 inches (50.8 x 27.9 x 11.7 mm)
 Weight 1.0 oz. (28 g)

PIN DATA

Pins are solder-plated brass, 0.031 (0.79) DIA



Dimensions in inches; () Dimensions in mm.