

HEHB

High -Efficiency Half Brick

60 to 200 W Power



The HEHB family of Dc-Dc converters is designed for next-generation boards. High-efficiency and industry-standard pinout simplify their use in telecommunications, data processing and other high-performance applications.

Features:

- Output power: up to 200 W
- High efficiency: up to 91%
- Power density up to 91 W/in³
- Current density up to 12 A/in²
- Industry standard pinout and footprint
- Adjustable output voltage with industry standard trim equation
- Designed to meet applicable NEBS standards

General Specifications:

- Input voltage range: 36 to 75 Vdc, 48 Vdc nominal
- Fixed switching frequency: 250 kHz
- Remote sense
- Primary remote On/Off
- Wide operating temperature range: -40°C to +100°C
- Input to output isolation: 2000 V, 10 M
- Safety/Regulatory Certified:
- cULus, CSA, CSA/US, TUV, KEMA (CB Scheme)

MODEL SUMMARY AND ORDERING CODE

Model Number	P _{max}	I _{out}	V _{out}
HEHB-70A-48V-1.5V	105 W	70 A	1.5 V
HEHB-70A-48V-1.2V	84 W	70 A	1.2 V
HEHB-65A-48V-1.8V	117 W	65 A	1.8 V
HEHB-60A-48V-2.5V	150 W	60 A	2.5 V
HEHB-50A-48V-3.3V	165 W	50 A	3.3 V
HEHB-40A-48V-5.0V	200 W	40 A	5.0 V
HEHB-40A-48V-3.3V	132 W	40 A	3.3 V
HEHB-40A-48V-2.5V	100 W	40 A	2.5 V
HEHB-40A-48V-1.8V	72 W	40 A	1.8 V
HEHB-30A-48V-5.0V	150 W	30 A	5.0 V
HEHB-30A-48V-3.3V	100 W	30 A	3.3 V

ORDERING EXAMPLE FOR MAGNETEK HEHB HALF BRICKS

Products Family Code	Rated Output Current	Input Voltage	Output Voltage	Option1-Remote On/Off Logic	Option 2-Mechanical	Option 3-PIN Length
HEHB	30 A	48 V	5 V	Default→Negative Logic	Default→Open Fram	Default→0.15"
	40 A		3.3 V	P→Positive Logic	PL→Cold Plate	1→0.25"
	50 A		2.5 V			2→0.11"
	60 A		1.8 V			
	65 A		1.5 V			
	70 A		1.2 V			

Example: HEHB-40 A-48 V-3.3 V-P-PL: Standard half brick with Positive Logic and Cold Plate options. Contact Factory for availability of specific model configurations.

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BOARD MOUNTABLE CONVERTERS

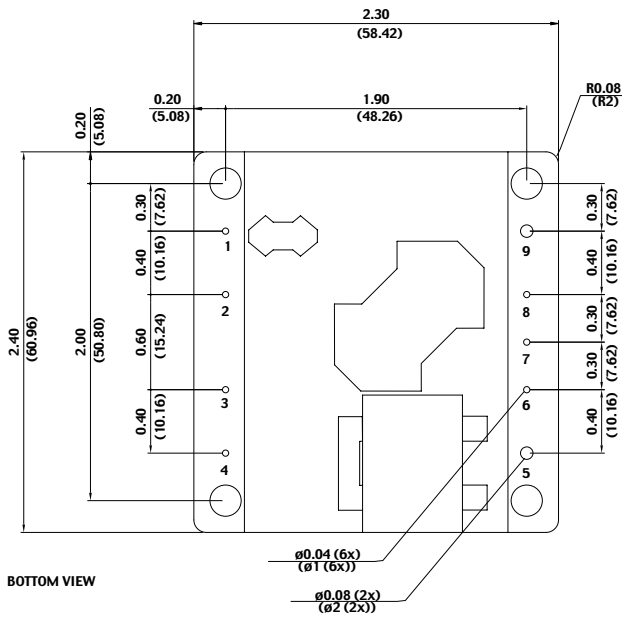
Mechanical drawings

DIMENSIONS ARE IN INCHES AND (MILLIMETERS)

TOLERANCE: x.xx in. ±0.02 in. (0.5 mm)

PINS 1-4, 6-8 are 0.04 in. (1.02 mm) dia. with 0.08 in. (2.03mm) dia. standoff shoulders

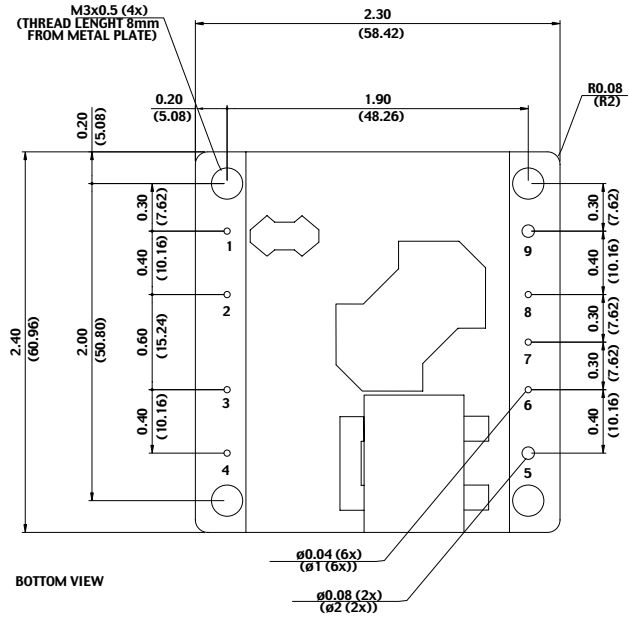
OPEN-FRAME VERSION



BOTTOM VIEW

SIDE VIEW

METAL-PLATE VERSION



BOTTOM VIEW

SIDE VIEW

METAL PLATE

Pin	Nomenclature	Description
1	Vin(-)	Return terminal for the input bus
2	On/Off	Primary remote enable/disable terminal, TTL compatible
3	Vin(+)	Positive terminal for the input bus
4	Vout(+)	Positive output terminal
5	S(+)	Positive remote sense terminal
6	Trim	Remote output voltage trim terminal
7	S(-)	Negative remote sense terminal
8	Vout(-)	Dc Return terminal

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