

HEQB

High -Efficiency Quarter Brick Single Output 27 to 100 W Power



MAGNETEK
UNCOMMON POWER



The HEQB family of standard Dc-Dc converters features a small footprint for significant space savings. High current density and wide voltage range simplify their use in a wide variety of distributed power architecture (DPA) designs.

Features:

- Output power: up to 100 W
- High efficiency: up to 92%
- Power density up to 83 W/in³
- Current density up to 9 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}
HEQB-25A-48V-3.3V	83 W	25 A	3.3 V
HEQB-25A-48V-2.5V	63 W	25 A	2.5 V
HEQB-25A-48V-1.8V	45 W	25 A	1.8 V
HEQB-25A-48V-1.5V	38 W	25 A	1.5 V
HEQB-20A-48V-5V	100 W	20 A	5.0 V
HEQB-15A-48V-3.3V	50 W	15 A	3.3 V
HEQB-15A-48V-2.5V	38 W	15 A	2.5 V
HEQB-15A-48V-1.8V	27 W	15 A	1.8 V

ORDERING EXAMPLE FOR MAGNETEK HEQB QUARTER BRICKS

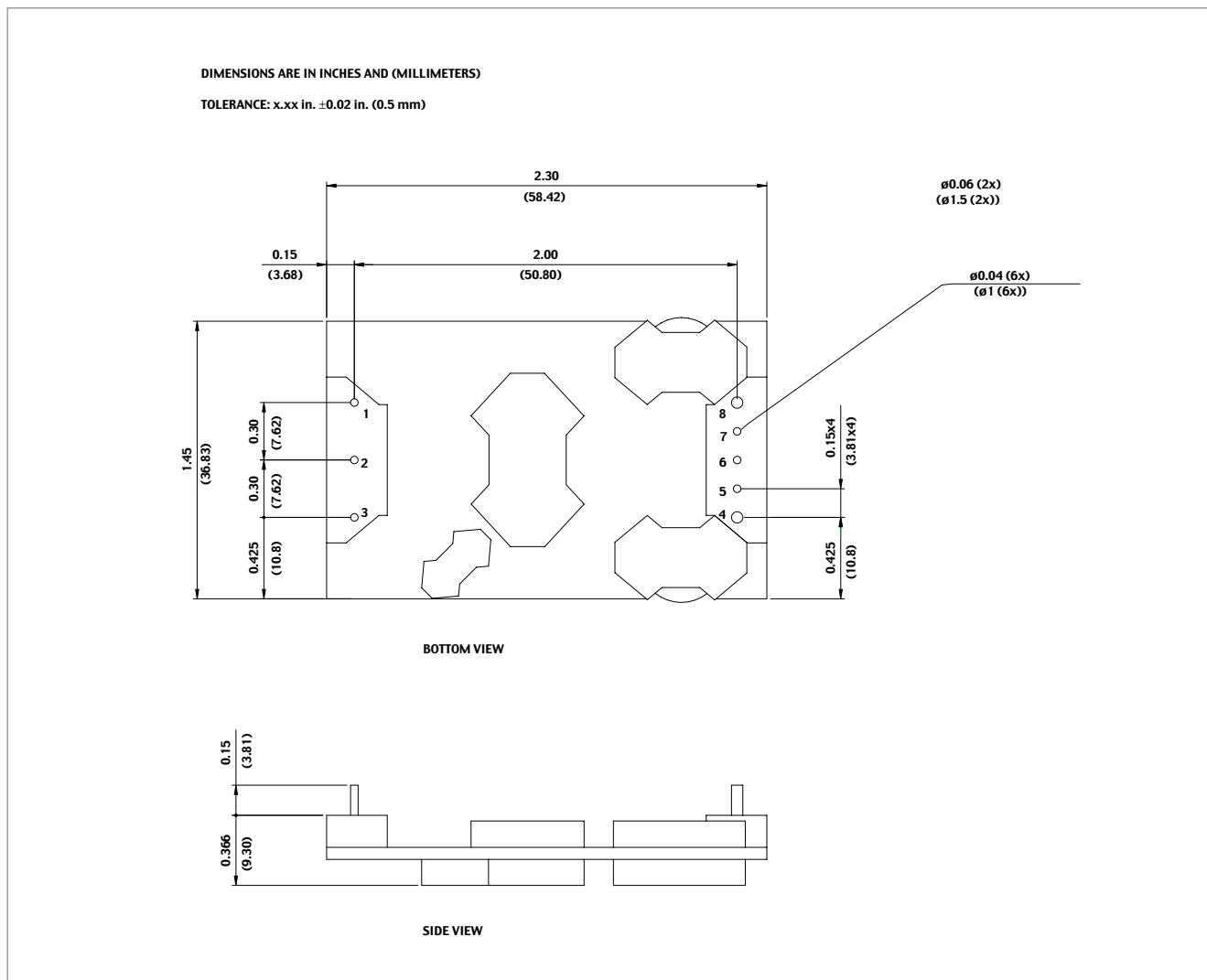
Products Family Code	Rated Output Current	Input Voltage	Output Voltage	Option1-Remote On/Off Logic	Option 2-Mechanical	Option 3-PIN Length
HEQB	15 A	48 V	5 V	Default→Negative Logic	Default→Open Frame	Default→0.15"
	20 A		3.3 V	P→Positive Logic	PL→Cold Plate	1→0.25"
	25 A		2.5 V			2→0.11"
	30 A		1.8 V			
			1.5 V			

Example: HEQB-25 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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Mechanical drawings



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