

HHD25 Series – 20/25A, Half-Brick DC/DC Converter
24V/48V Input
Dual Output



Applications

- Distributed power architectures
- Telecommunications equipment
- LAN/WAN applications
- Data processing applications

Description

The HHD25 is a new series of high density Halfbrick size, High current, Dual output DC/DC converters with through-hole mounting. The products provide onboard conversion of standard Telecom and Datacom input voltages to two independently-regulated output voltages. Leading-edge technology provides extremely high efficiency and superior thermal performance which enables the products to deliver full rated power at 55°C ambient temperature with only 200 LFM forced air without addition of a heatsink. The outputs also track each other during both startup and shutdown.

Features

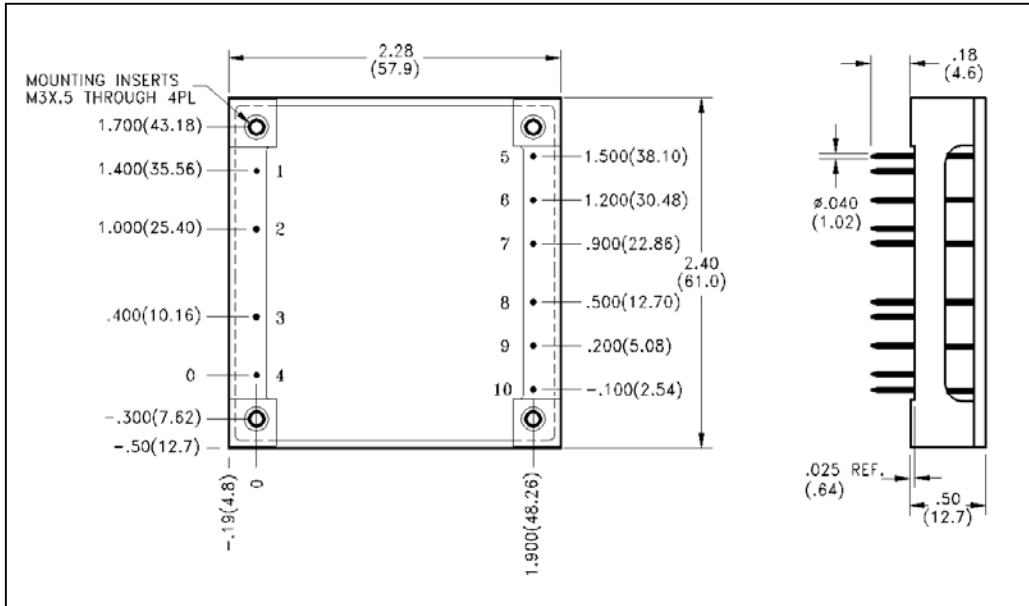
- 100/85 Watt total output power
- Independently regulated outputs
- Flexible load distribution
- Open-frame design with Insulated Metal Substrate
- Low profile – 12.7mm height
- High efficiency - 87%
- Output voltage tracking
- Output overcurrent protection
- Output overvoltage protection
- Overtemperature protection
- Setpoint accuracy $\pm 1.5\%$
- Independent output voltage trim, positive or negative
- Input/output isolation: 1500VDC, basic insulation
- UL 1950 Recognition, CSA 22.2 No. 950-95 certification, TUV IEC950

Selection Chart

Model	Input voltage range, VDC	Input current, max, ADC	Output voltage, VDC	Output rated current, ADC	Output Ripple and Noise, mV p-p	Typical Efficiency %
HHD20ZGE	36-72	3.6	5.0/3.3	20/20	100	87
HHD20ZGB	36-72	3.6	5.0/1.8	20/20	100	85
HHD25ZED	36-72	3.1	3.3/2.5	25/20	100	85
HHD25ZEB	36-72	3.1	3.3/1.8	25/20	100	84
HHD20YGE	18-36	7.2	5.0/3.3	20/20	100	85

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Mechanical Drawing



Bottom (Pin) View

Side View

Pin #	Function
1	-Vin
2	Case
3	On/Off
4	+Vin
5	+V2 out
6	V2 Return
7	V2 Trim
8	+V1 out
9	V1 Return
10	V1 Trim

Tolerances: .xx ± .020 (.5)
 .xxx ± .010 (.25)
 Pin diameter ± .0002 (.05)

Ordering Information

Options	Suffixes to add to part number
Remote On/Off	Positive- Standard, no suffix required
	Negative- Add "N" suffix
Pin Length	0.18"- Standard, no suffix required
	0.11"- Add "8" suffix
	0.15"- Add "9" suffix

Notes

1. Consult factory for the complete list of available options.
2. Power-One products are not authorized for use as critical components in life support systems, equipment used in hazardous environments, or nuclear control systems without the express written consent of the President of Power-One, Inc.
3. Specifications are subject to change without notice.