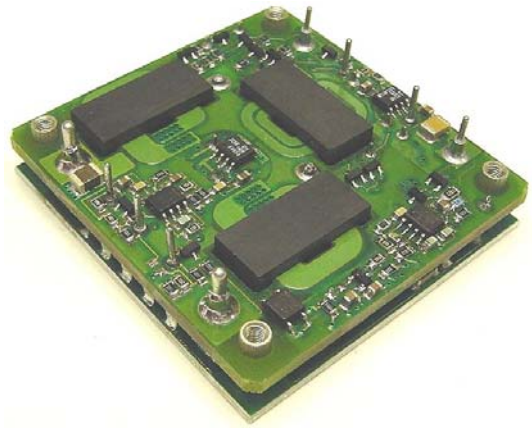
Product Brief

HHS60 Series – 60A Half-Brick DC/DC Converter
48V Input
3.3V, 2.5V, 1,8V, 1.5V, 1.2V Outputs



Applications

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

Features

- Open-frame design with Insulated Metal Substrate
- Low profile – 12.7 mm height
- Input/output isolation: 1500VDC, meets basic insulation requirements
- Start-up into high capacitive load
- Output back-drive capability
- Low conducted and radiated EMI
- Output overcurrent protection
- Output overvoltage protection
- Overtemperature protection
- Remote sense
- Set point accuracy ± 1.0%
- Remote on/off, positive or negative logic
- Output trim, positive or negative
- UL 1950 Recognition, CSA 22.2 No. 950-95 certification, TUV IEC950

Description

HHS60 single-output DC/DC converters provide up to 60A output current in an industry-standard, half-brick package. This high-density product converts standard telecom and datacom input voltages to regulated, low output voltages. The HHS60's leading-edge technology provides high efficiency. Its thermal design enables delivery of full-rated power at 55°C ambient temperature by using only 200 LFM of forced-air cooling without the need of a heatsink.

Selection Chart

Model	Input voltage VDC	Input current max, ADC	Output voltage VDC	Output current ADC	Output ripple/noise (mV p-p)	Typical efficiency
HHS60ZE	36-75	5.0	3.3	60	200	89.0
HHS60ZD	36-75	4.9	2.5	60	200	88.0
HHS60ZB	36-75	3.6	1.8	60	200	86.0
HHS60ZA	36-75	3.1	1.5	60	200	84.0
HHS60ZY	36-75	3.1	1.2	60	200	82.0

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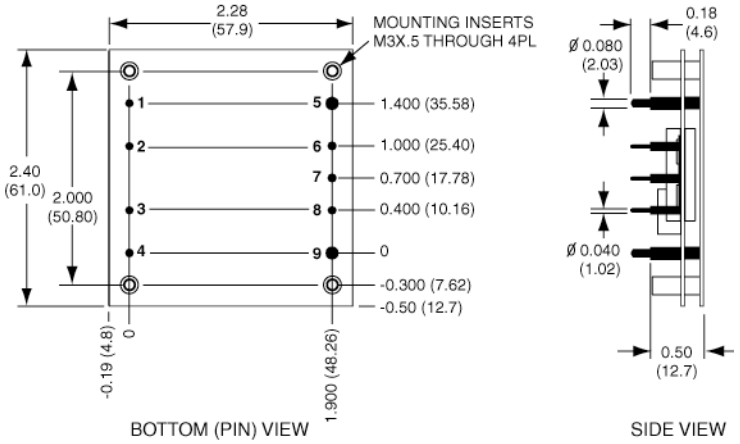
Mechanical Drawing



Pin #	Function
1	-Vin
2	Case
3	ON/OFF
4	+Vin
5	-Vout
6	-Sense
7	Trim
8	+Sense
9	+Vout

Tolerances: .xx ± .020 (.5)
.xxx ± .010 (.25)
Pin diameter ± .0.002 (.05)

Ordering Information

Options	Suffixes to add to part number
Remote On/Off	Positive- Standard, no suffix required
	Negative- Add “N” suffix
Trim	Negative- Standard, no suffix required
	Lucent compatible- Add “T” 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.